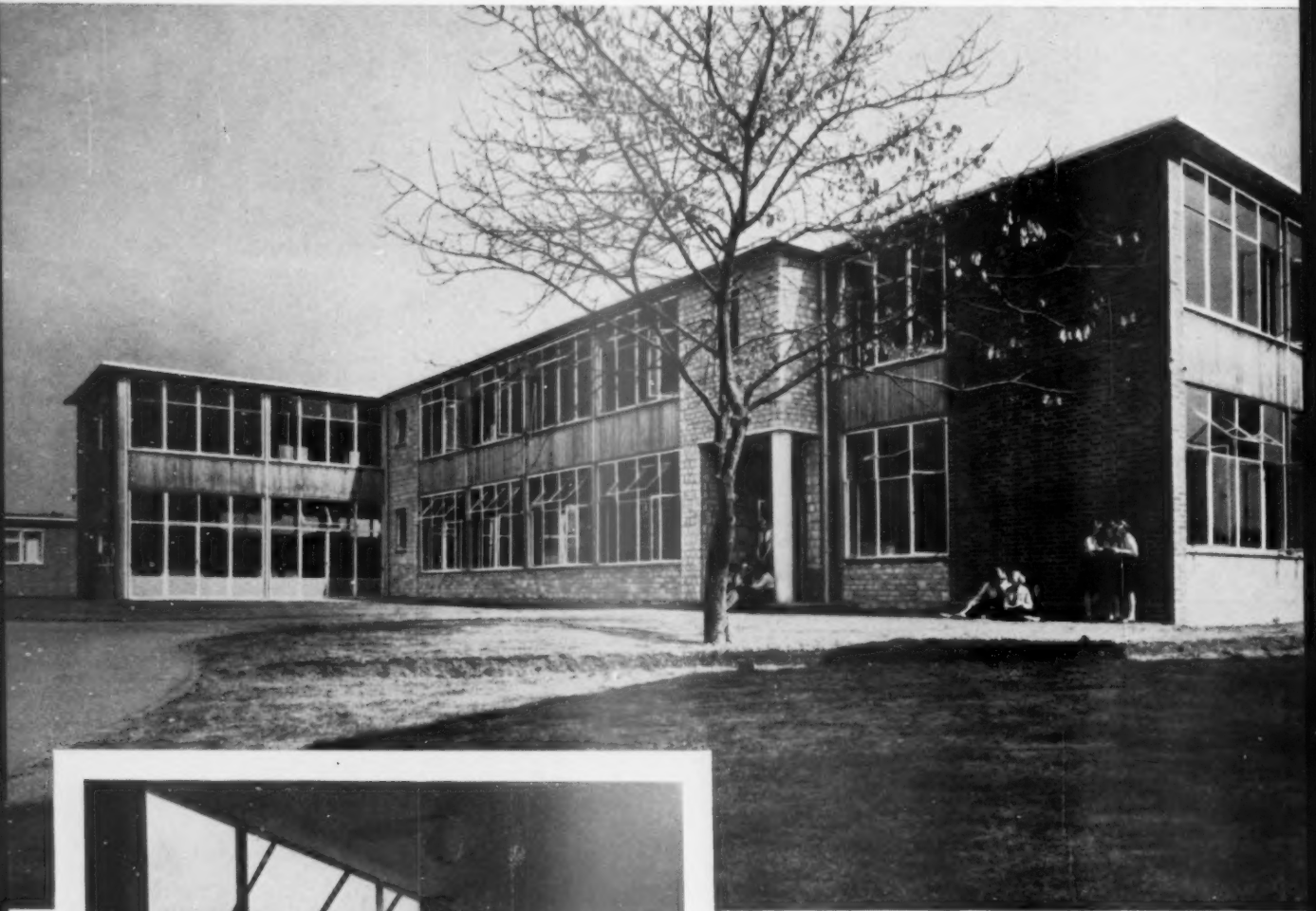


# 28 The Architect & Building News

13 July 1960 V. 218/2 1s. Weekly



# *Specify* **NEWMAN'S** Window opening gear



## **Buildings of today...**

The Girls Grammar School, Stratford on Avon, is a fine example of contemporary architecture, blending with an existing traditional building. This can be seen on the interior view, where another point worthy of note is the neat and unobtrusive appearance of Newman's Window Opening Gear.

*John P. Osborne & Son F/A.R.I.B.A. Architects  
in collaboration with*

*G. R. Barnsley F.R.I.B.A. County Architect, Warwickshire*

*Window Contractors: W. & J. H. Oldaker*

# **NEWMANS**

**WILLIAM NEWMAN & SONS LIMITED**

**WELLHEAD LANE, BIRMINGHAM, 22 B**

**TELEPHONE: BIRCHFIELD 5668**

**HEAD OFFICE: HOSPITAL STREET, BIRMINGHAM 19.**

Shaft and Lever Gearing is neat and inconspicuous when designed with the co-operation of the architect and window manufacturer.

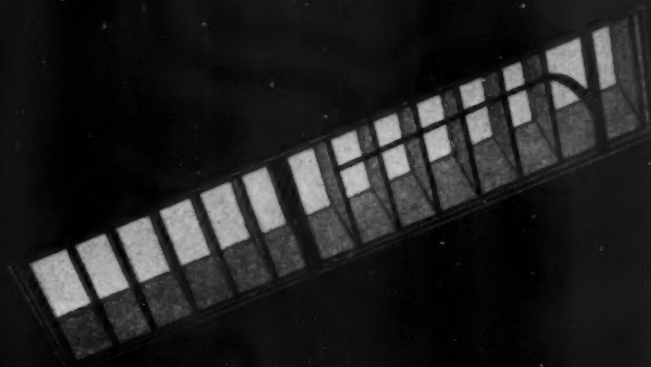
**IT REQUIRES LESS MAINTENANCE THAN ANY OTHER TYPE OF GEAR**

Newman's gearing is inexpensive, easy to install, will give many years service and is adaptable to all types of windows and ventilators for:—

**SCHOOLS · PUBLIC BUILDINGS · POWER STATIONS · INDUSTRIAL BUILDINGS · OFFICES**

*Catalogue sent upon request, quotations without obligation*





# The silent firefighter

This fire ventilator saved a plant worth £3,500,000  
*It could well save yours*

As any fire chief will tell you, fire in an unventilated area quickly produces choking, superheated smoke and fumes—conditions which keep firefighters out of the building and make effective firefighting virtually impossible. Perforation of the roof is the only remedy, but this is a hazardous operation which often endangers the life of the fireman.

The Colt Dual Purpose Ventilator has a special device that's acutely sensitive to heat. It opens automatically at a pre-determined temperature,

releasing smoke, heat and fumes, keeping the fire localised. Firemen can enter the building, find the seat of the fire and extinguish it—with minimum damage to plant and equipment.

Colt dual-purpose ventilators have the added advantage that under manual control they can be used for normal plant ventilation and provide excellent day-to-day working conditions.

Widespread adoption by industry is proof of managerial faith in the silent firefighter.



## **Dual-Purpose Ventilators**

*Automatic Fire protection—day-to-day controlled ventilation*

FOR INFORMATION WRITE TO DEPT. 89: COLT VENTILATION LIMITED, SURBITON, SURREY. ELMBRIDGE 0161  
A



*you have never seen*

The trend in lighting today is towards high illumination. High illumination is an excellent thing in itself, but until now it has inevitably been accompanied by excessive glare with consequent discomfort to the eyes. This discomfort glare, caused not only by the light source itself, but also by the fittings, results in the increased light becoming instead of an aid to efficiency, the very reverse, an actual distraction.

Look at the picture. The office is more than adequately lighted, yet the light fittings themselves are not emitting any appreciable glare. The light source is, in fact, *unobtrusive*.

This is G.E.C. comfort in lighting—a new technique in which the G.E.C. has gone a long way towards removing discomfort glare by using high illumination in conjunction with low brightness fittings of high luminous output, sometimes called “dark” fittings because by correct design and use of suitable materials, they actually appear to be dark.

# comfort in

*high level illumination without discomfort glare*

*lighting like this before ...*

*You have never seen lighting like this before and no advertisement can hope to make clear to you its remarkable superiority over conventional methods. It takes 40 pages of a new G.E.C. publication No. F4695, to do this, and a copy will be sent to you on request.*



# lighting

**G.E.C.**  
LIGHTING DIVISION

THE GENERAL ELECTRIC CO. LTD.,  
MAGNET HOUSE, KINGSWAY, LONDON, W.C.2





**This is a *Stelrad***

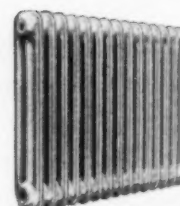
**the Radiator  
that's made  
in the size  
you want,  
and in the  
shape your  
client likes**



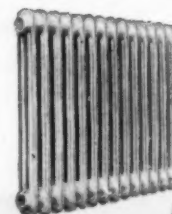
*Double Wall*



*Angle-Wall*



*3-Column*

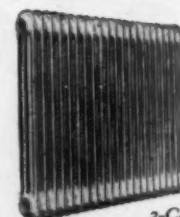


*Easy Clean*

Now who would have thought the Stelrad Steel Radiator had been with us for nigh on twenty-five years? Why, you can probably remember people telling about it at the time.

***Stelrad* PATENTED PROCESS RADIATORS**

Some were doubters, holding forth about steel and how the only Radiator to use was one that was not only heavy to handle but ungainly to behold. But where is the Stelrad today? In buildings large and small throughout the length and breadth of the land, and in a range so wide there is not a single nook a Stelrad cannot heat.



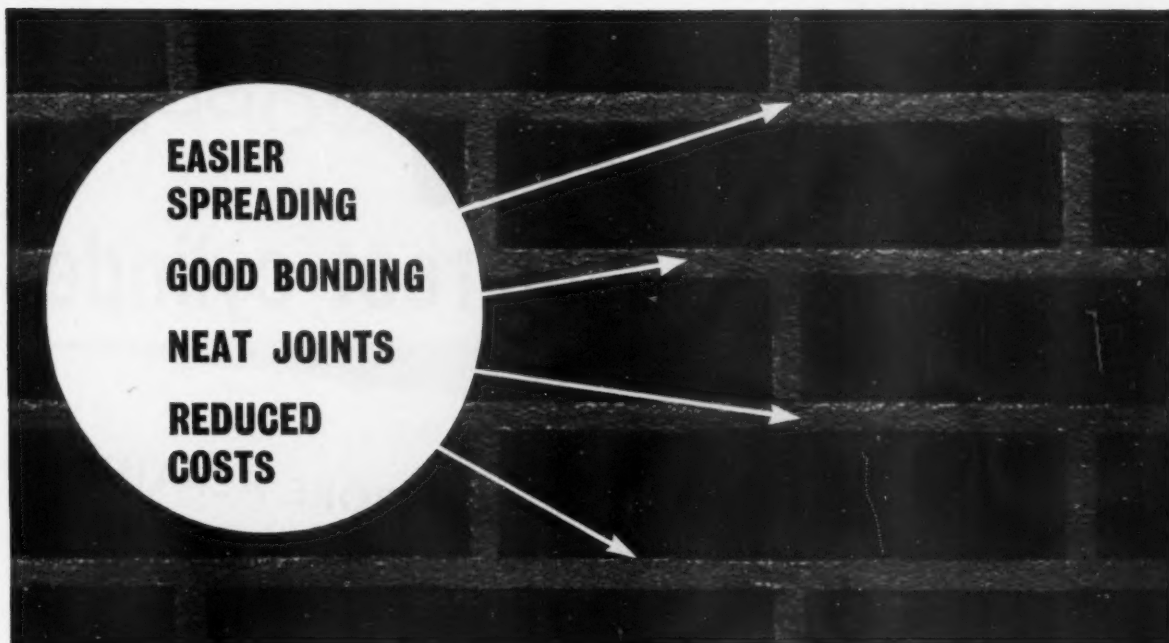
*2-Column*



*Window seat type*

**STEEL RADIATORS LIMITED**

BRIDGE ROAD, SOUTHALL, MIDDLESEX • Telephone: SOUThall 2603



## **PLAZ** non-detergent type Mortar Plasticiser

Mortar incorporating PLAZ, spreads MORE EASILY with LESS EFFORT. Cracking is minimised – and costs are reduced through the use of coarser sands, the reduction in water cement ratio, and easier spreading.

## **PLAZCRETE** concrete plasticiser

specially compounded to produce a concrete mix of 100% EFFICIENCY!

IMPORTANT ADVANTAGES include:

- ★ **HIGH STRENGTH CONCRETE** at reduced cost, using less cement;
- ★ **LONGER HAULAGE TIMES** allowed for Mixing Trucks;
- ★ **SET RETARDED** – thus avoiding day joint problems;
- ★ **TIME SAVED** in placing and vibrating;
- ★ **IMPROVED WORKABILITY** for same water content;
- ★ **WATER-CEMENT RATIO** reduced;
- ★ **SHRINKAGE** reduced;
- ★ **BLEEDING and SEGREGATION** conquered;

The unique advantages of PLAZCRETE are VITAL to Ready-Mixed Concrete Suppliers, Contractors and Civil Engineers using Pumped Concrete. N.B. Plazcrete (non-retarding) is also available.

### **For SPECIALISED REQUIREMENTS . . . SEALOCRETE A.E.A.**

Improves flow, compaction and impermeability of concrete; increases resistance to sulphate and frost attack; enhances riding qualities of concrete roads, etc.



## **SEALOCRETE PRODUCTS LTD**

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TELEGRAMS: SEALOCRETE, WESPHONE, LONDON  
CABLES: SEALOCRETE, LONDON

# THE PRIMATIC COPPER

## indirect cylinder



### FOR SMALL BORE HEATING & DOMESTIC HOT WATER

Small Bore Pipe Heating requires an indirect cylinder.

The PRIMATIC Copper indirect cylinder is outstanding for this purpose.

**ECONOMICAL** for a new installation because it requires only one cold feed tank which means:-

**LESS PIPEWORK, LESS FIXING**  
**LESS SPACE and LESS COST.**

**PERFECT** when altering an existing system from direct to indirect heating because it requires **PRACTICALLY NO ALTERATION TO THE PIPEWORK.**

An immersion heater can be operated in the primary circuit if required. This prevents scale deposit on the heater in hard water areas.

In soft water areas an immersion heater may be fitted in the Secondary System.

*Manufactured from Copper Sheet to B.S.899.*

*All Copper Bosses.*

*Zinc free silver alloy brazed.*

*Immune to attack from dezincification.*

*Conforms to B.S.S. 699*

*Accepted by British Waterworks Association.*

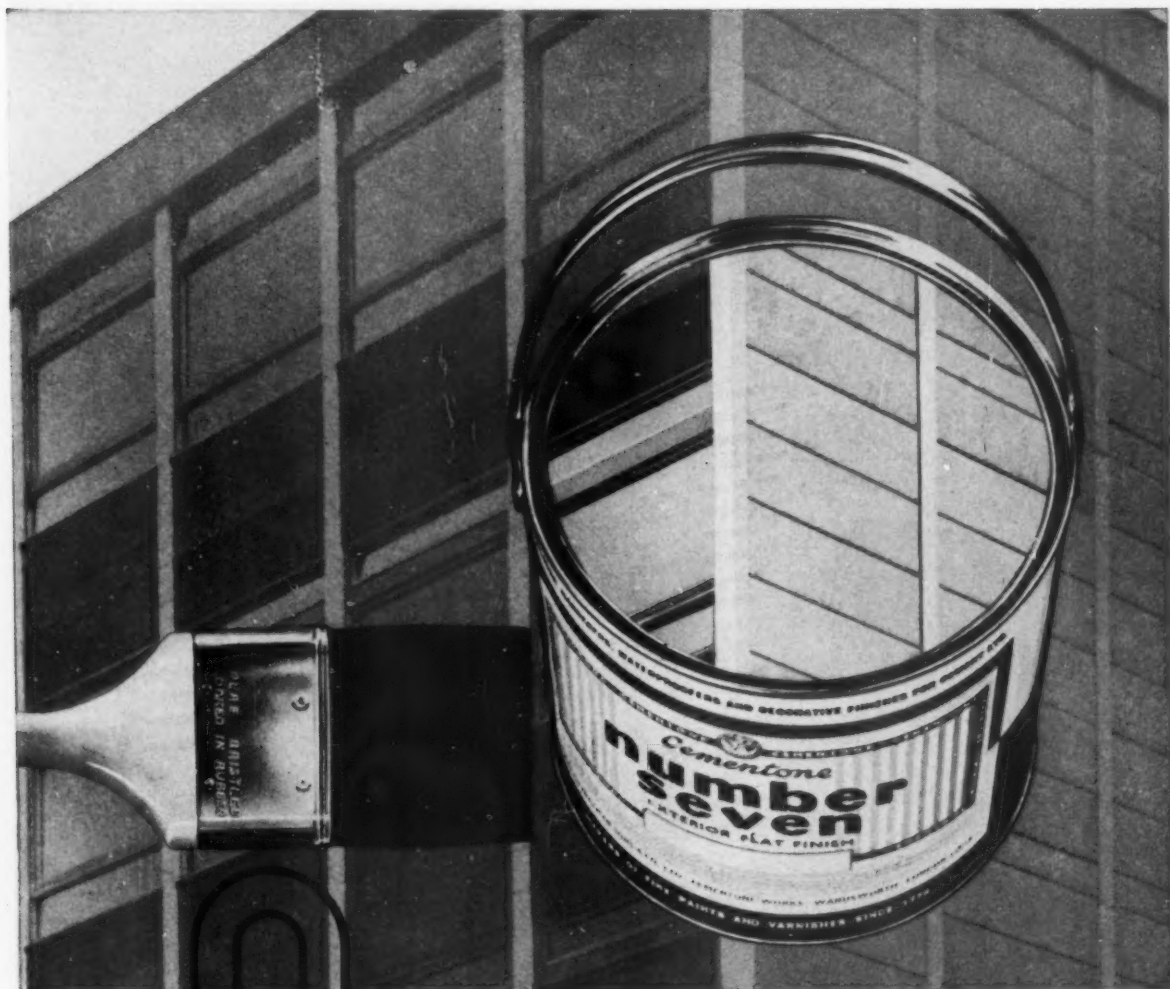
## RANGE BOILERS LTD.

(AND SUBSIDIARY COMPANIES)

STALYBRIDGE · CHESHIRE

TEL STALYBRIDGE 3353 GRAMS. CYLINDERS, STALYBRIDGE





THERE ARE

9

DIFFERENT **CEMENTONE PRODUCTS**

## **number seven** FLAT AND GLOSS FINISHES

*Cementone Number Seven Exterior Flat Finish is designed specially for the decoration and protection of all exterior wall surfaces. It is also available as an Interior Flat Finish. Number Seven Flat and Gloss Finishes are suitable for Interior or Exterior, new and old surfaces.*

Joseph Freeman  
Sons & Co. Ltd.  
Cementone Works  
Wandsworth  
London, S.W.18  
VANDYKE 2432



Cementone **No. 1**  
Cementone **No. 2**  
Cementone **No. 3**  
Cementone **No. 5**  
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Cementone **No. 7**  
Cementone **No. 8**  
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Permanent Colours for Cement  
Waterproofing Powder  
Transparent Waterproof  
Concrete Floor Binder  
Waterproof Flat Finish  
Flat and Gloss Finishes  
Concrete Hardener  
Waterproof Stoneface Composition  
Surface Tinter



To be more accurate, in the case of this large block of flats, more than one jointing problem was solved by using Expandite 'Seelastik'—an all-purpose flexible sealing compound. It was used for sealing expansion joints as well as for pointing joints around windows and doors.

In all these applications, 'Seelastik' was chosen for both its durability and flexibility: it allows for the expansion and contraction of brickwork, concrete and metal without breaking down, thus preventing the ingress of rain, damp and draughts. 'Seelastik' is the ideal compound where, due to climatic variations, shrinkage, subsidence or mechanical vibration, movement is likely to occur.

For every specialised requirement in sealing and joint-filling Expandite can provide a product that will solve the specific problem. The Expandite Technical Service Department is ready not only to recommend to Architects, Builders and Civil Engineers on how best to use the many Expandite products that are available, but also to offer advice—without any obligation—on any problem concerning 'joints-that-move'.

## ANOTHER JOINTING PROBLEM SOLVED

**EXPANDITE**  
LIMITED

*Specialists in the manufacture and use of Joint-Fillers, Sealing and Waterproofing Compounds, Concrete Additives, Anti-Corrosion Treatments and Mechanical Appliances*  
CHASE ROAD, LONDON, N.W.10. TELEPHONE: ELGAR 4321 (14 lines)

Northern Depot: Trafford Park Road, Manchester 17  
Eire: Expandite (Ireland) Limited, Greenhills Road, Walkinstown, Dublin

ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD

# from **LEISURE** a self-contained SHOWER CUBICLE



**a space-saving  
private bathroom  
within the reach of  
all your customers!**

The Leisure Shower Cubicle has been designed to stand anywhere without structural alterations of any kind. It is particularly useful in flatlets, where space is so precious. What does the Leisure Shower Cubicle offer? An attractive shower curtain seals off the gleaming white and black enamel interior from the outside room. The spotlight glass panel, set into the roof, provides plenty of light. A twist of the anti-scald mixer tap gives instant hot or cold showers. The chrome flexible pipe can be transferred to the washbasin, which together with the mirror and glass holder is an optional accessory. The Leisure Shower Cubicle is soundly constructed in pressed steel, and is easy to install. Prices have been kept to a minimum so that all can benefit from this unique piece of home equipment. Display the Shower Cubicle prominently in your showroom—and get set for brisk sales this summer!

PRICES FROM £43.4.6 (undrilled)  
TO £58.3.3 (complete with all accessories)

THE LEISURE SHOWER CUBICLE IS MADE BY LEISURE KITCHEN EQUIPMENT LTD  
NOTTINGHAM ROAD · LONG EATON · N<sup>r</sup> NOTTINGHAM · A DIVISION OF  ALLIED IRONFOUNDERS





Curtain Walling is quick  
but this new WALLSPAN  
beats the lot

## FACTS

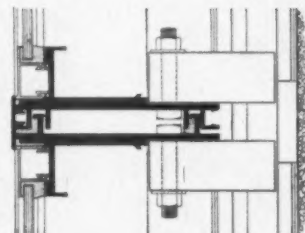
A new type of Wallspan makes its debut on the tower of Castrol House—a prefabricated Wallspan designed in collaboration with the architect that goes up more quickly than any curtain walling system yet devised. Williams & Williams developed it specially to fit in with a tight building schedule—18 months from start to finish.

The main feature of prefabricated Wallspan is that its mullion is split vertically in half. This allows it to be sup-

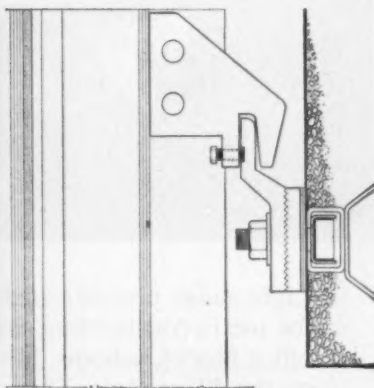
plied in complete prefabricated panels 2 floors high, with the double-hung windows already in place. Each panel is simply hung on to its fixing spigots, plumbed, then interlocked with its neighbour. The walls of the tower block were erected at the rate of 2 floors a week: the interior trades were able to move in and get on with their job fully protected while the floors above were still being clad.

The vertical section shows how the

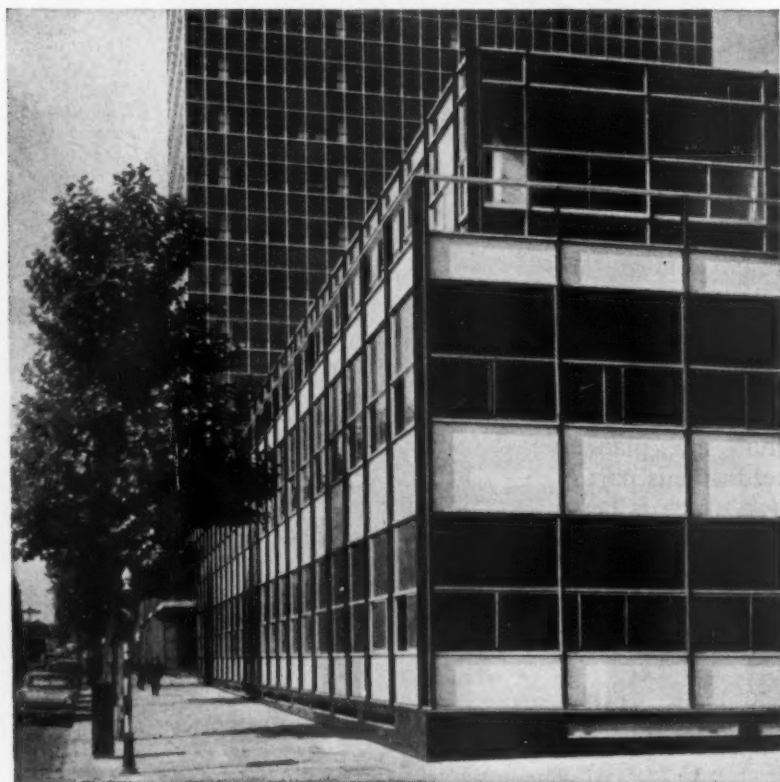
prefabricated Wallspan is literally hung on to the frame. It is curtain walling in the truest sense, and although designed in the first place specifically for Castrol House, the system is now generally available—a classic example of co-operation between the architect and the curtain walling specialists.



Horizontal section at infill level. Each half mullion forms the edge of a prefabricated panel. When the two panels are brought together, the joint is sealed with Thiokol mastic and an aluminium capping is then clipped on to seal the joint finally.



Vertical section showing fixing detail. As the floor slab is cast, bolts are built in ready to receive the fixing spigots. These are adjustable vertically and horizontally to allow for slight inaccuracies. Hooks on the Wallspan panels engage over the spigots and are kept firmly in place by compression bolts.



CASTROL HOUSE, MARYLEBONE ROAD, LONDON—new offices for C. C. Wakefield & Co. Limited. A development of the Hammerson Group of Companies.

ARCHITECTS: Gollins, Melvin, Ward and Partners. CONTRACTORS: Sir Robert McAlpine & Sons Ltd.

*forward looking building products*

**WILLIAMS & WILLIAMS**

Williams & Williams make steel windows of every description, ALOMEGA and other aluminium windows, ROFTEN movable steel partitioning, ALUMINEX patent glazing, WALLSPAN curtain walling and many other products, all of which can be seen at our permanent exhibition at 36, High Holborn, London, W.C.1

WILLIAMS & WILLIAMS, RELIANCE WORKS, CHESTER · WILLIAMS HOUSE, 37-39 HIGH HOLBORN, LONDON, W.C.1

# BROCKHOUSE



Light gauge prefabricated structural steelwork for use in constructing single and multi-storey office blocks, schools, hospitals, etc., planned on the 40" module. This steel frame is part of the main CLASP construction which is being used for the United Kingdom Exhibit at the 1960 Triennale Di Milano.

## BROCKHOUSE STEEL STRUCTURES LTD.

Victoria Works, West Bromwich, Staffs.

'Phone: Wednesbury 0243

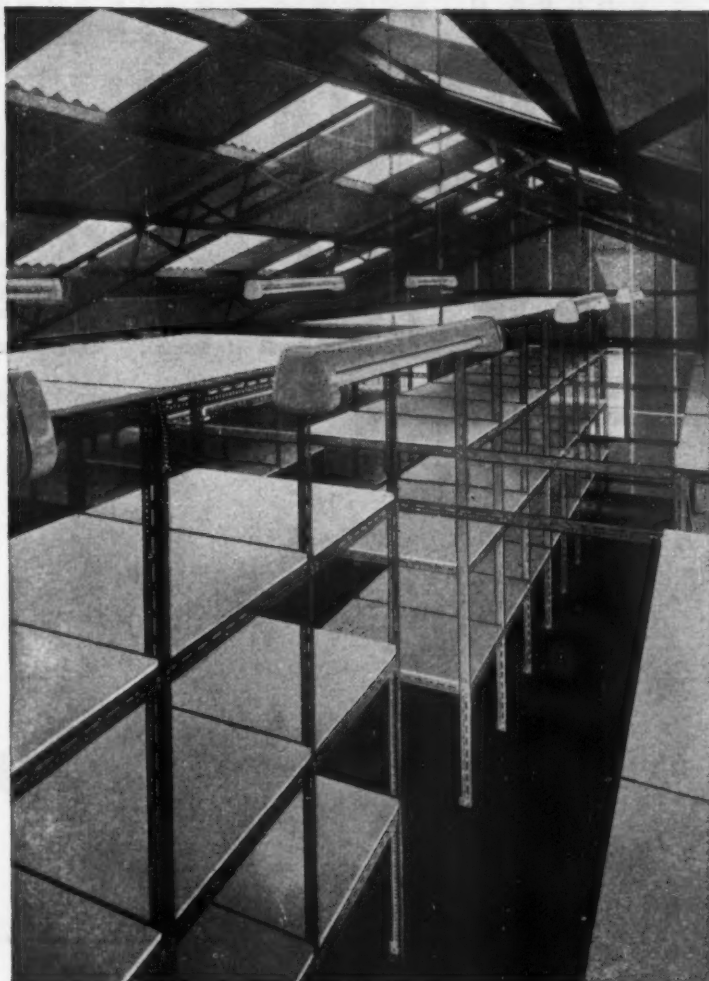
*Our illustrations show the school building to be erected at Milan.*

*Architect: W. D. Lacey  
A.R.I.B.A., A.M.T.P.I.,  
County Architect, Notts.*





# PLIMBER WOOD CHIPBOARD



## for Storage Racks

At Thorn Electrical's stores at Abridge, the 1" PLIMBER is bolted to the slotted angle to make 4-tier storage racks up to 24 ft. long by various widths.

(Photo with acknowledgement to the  
FERGUSON RADIO CORPORATION LIMITED)

**PLIMBER**

WOOD CHIPBOARD

Standard size: 8 ft. x 4 ft.  
Maximum size: 16 ft. x 4 ft.

**PLIMBER**

WOOD CHIPBOARD

Thicknesses:  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in.  
Density: 45 lbs./cu. ft.

**PLIMBER**

WOOD CHIPBOARD



Grades: Standard PLIMBER 45  
and  
Wood Veneered PLIMBER

*For technical literature, prices, and names of stockholders  
please write or telephone*

**BRITISH PLIMBER LIMITED**

Rainham, Essex.

Telephone: Rainham 5262

# FOR EXTRA LIGHT DIFFUSION WITH HIGH INSULATION SPECIFY **PLYLITE**

'PLYLITE' is a registered Trade Mark of Plyglass Limited.



Patent Pending No. 39217/59

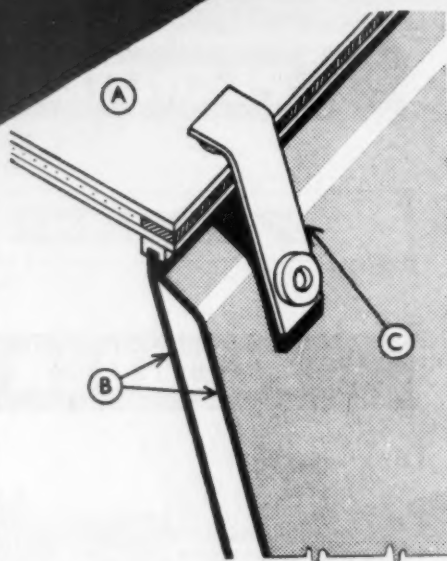
'PLYLITE' roof lights are completely shatterproof and need no maintenance. Kerb made from self-coloured reinforced plastics, no painting or finishing required. By the use of diffusing 'PLYGLASS' efficient light diffusion is achieved whatever the position of the sun together with a high insulation factor in both kerb and glazing. Designed for modern roof construction, the 'PLYLITE' range of standard sizes has been evolved to cater for most modular requirements at a reasonable price.

*Technical information is available on request from*

**PLYGLASS LIMITED, Edinburgh Way, Harlow, Essex**

Telephone: Harlow 24271

Cables: PLYLUX Harlow



- (A) 'PLYGLASS' Diffusing Double-Glazing Unit.
- (B) Chemical resistant, self-coloured, double-skin, glass-fibre reinforced plastics kerb and flange.
- (C) Stainless-steel glass-retaining clip.



# BURGESS SUSPENDED CEILINGS

**AT4a** Technical details, N.P.L. Report, and extract from Joint Fire Research Organisation report.

**ATH2** Radiantly heated by hot water.

**ETH1** Radiantly heated by electricity.

**AT7** Module sizes, introduction to Motif Tile.

**AT8** Fire report on Radiantly heated ceiling.

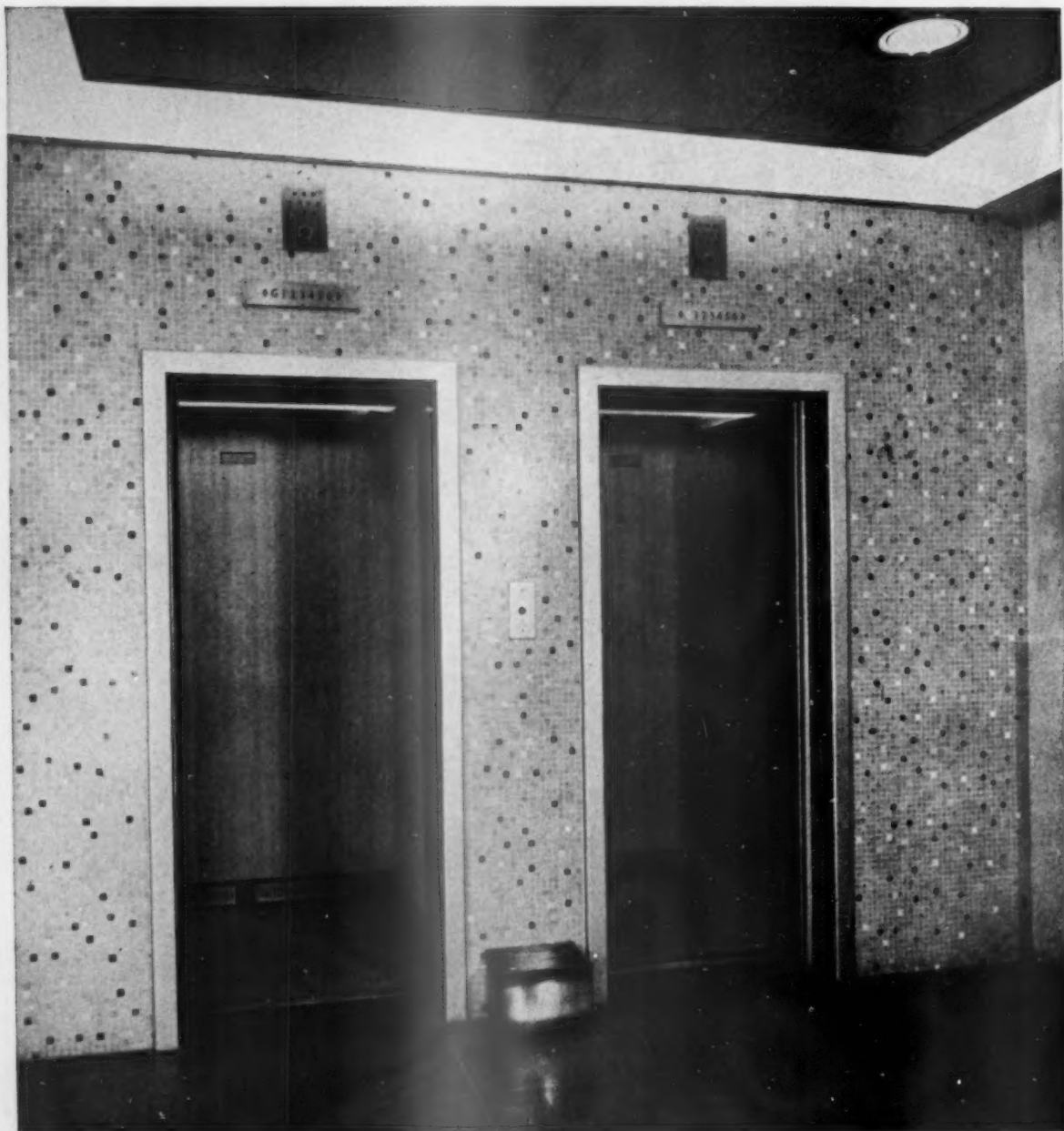
**RIBTILE** Introduction to the new Burgess Ribtile.

**SHEETS 1 TO 4** Details of Burgess suspension system.

*Leaflets illustrated are available on request together with price list and names of distributors.*

**BURGESS PRODUCTS COMPANY LTD, ACOUSTICAL DIVISION, BROOKFIELD ROAD, HINCKLEY, LEICS.**





*Bilton House, Uxbridge Road, Ealing, London*

*Architects: Eric Firmin & Partners F|F.R.I.B.A.*

**H & C**

**ELECTRIC PASSENGER & GOODS**

**LIFTS**



**HAMMOND & CHAMPNESS LTD.**  
Gnome House, Blackhorse Lane,  
Walthamstow, London, E.17  
Telephone: LARKSWOOD 1071

Modernise with

**HARD  
COKE****for LOW COST  
heating—automatic  
and trouble-free**

THERE are available automatic coke boilers outstanding for their efficiency and economy and which operate unattended for long periods. Also chain-grate stokers, underfeed stokers and preburner units for converting boilers to automatic firing and higher efficiencies.

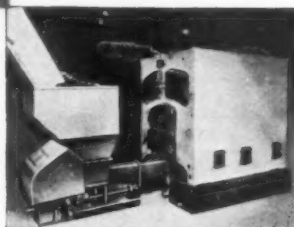
For the larger sectional boilers there are inexpensive, easily-applied conversion units which will raise the efficiency of the boiler, reduce the fuel consumption and provide accurate thermostatic control with time switches. The cost of the conversion has been saved in little more than a year from fuel savings, burning Hard Coke.

Further information will be supplied by the British Coking Industry Association representing the producers of Hard Coke, whose members include the leading Steel Companies, the National Coal Board and independent producers.

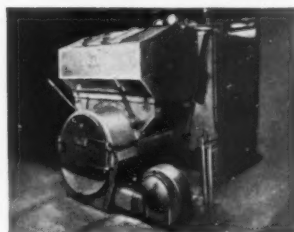
**To conform with the  
CLEAN AIR ACT:**

On the 1st June, 1958, the general industrial provisions of the Clean Air Act came into force. Have you a furnace or boiler which is difficult to operate smokelessly? A change to hard coke may very well be a simple solution to your problem. With attention to firing details such a change will give you added economy.

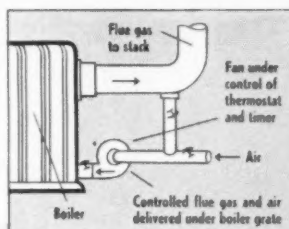
HARD COKE is widely used to heat flats, offices, hotels, schools etc. Coke-burning equipment can be as highly efficient, automatic and trouble-free as any other fuel system which probably costs FAR more to install and to run. Users prefer Hard Coke because it is made in plants designed essentially for producing cokes and these are technically suited and carefully graded for their specific purposes. Specially selected coals are used which are washed and crushed before carbonisation.



"BIGWOOD" Underfeed Stoker fitted to a sectional boiler.

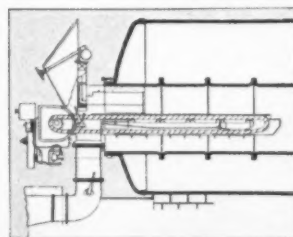


A "SUXE" pre-burner fitted to a sectional boiler for Central Heating.

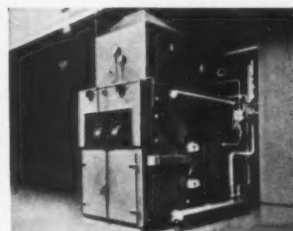


G.A.P. conversion unit fitted to sectional boiler for Central Heating.

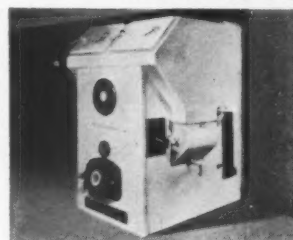
Cross-section of the "OLDBURY" Chain Grate Stoker fitted to a Lancashire boiler.



Redfye "EMMA" coke-fired Boiler for Central Heating.



"WATTS" coke-fired magazine boiler for Central Heating.

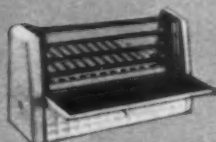


THE BRITISH COKING INDUSTRY ASSOCIATION - 74 Grosvenor Street, London, W.1.

Phone : MAYfair 9736

## SPECIFY SOFONO CONVECTOR MK II

### VARIOUS FIRES WHICH CAN BE FITTED TO THESE APPLIANCES



FULL-VIEW



GRANGE



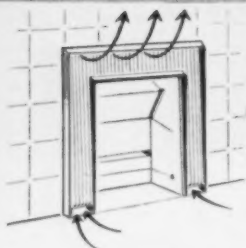
LO-FRONT



LOW-VIEW



RURAL



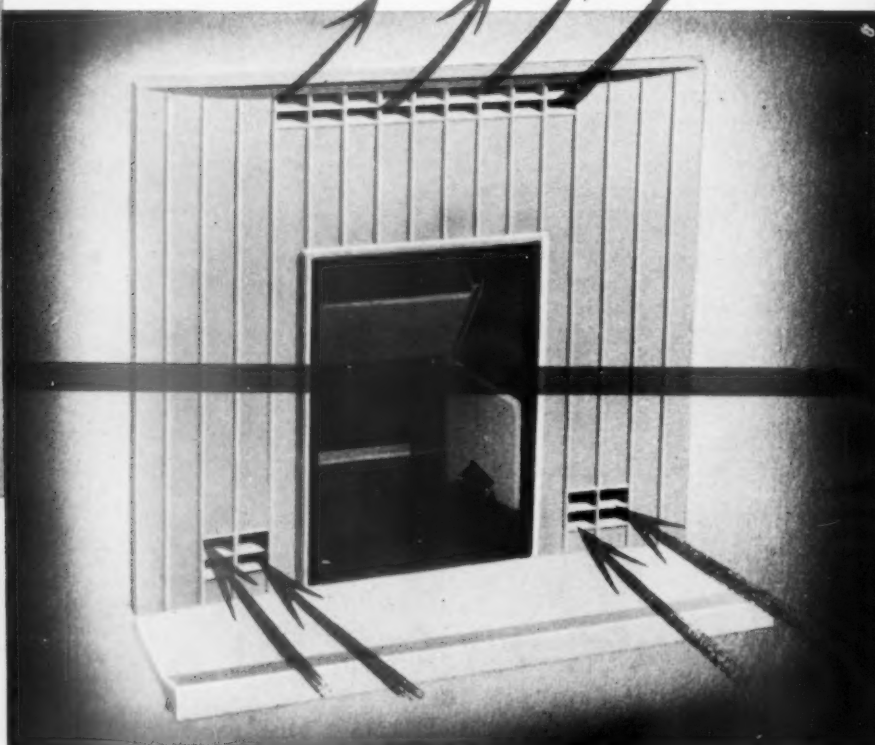
### THE SOFONO SELF-CONVECTING INTERIOR FRAME

Specially designed for use with the CONVECTOR MK. II, this vitreous enamelled cast-iron self-convecting interior frame with a reeded surface pattern incorporates unobtrusive inlet and outlet grilles. Available in 8 colours.

**Materials, Finish:** Cast-iron. Refractory lined firebox. Vitreous enamelled fire. Choice of 8 colours. Single-cased construction. **Non-boiler Model:** Radiation/convection for 2,250 cu. ft.; radiation only for 1,750 cu. ft. *plus* background heating for 2,000 cu. ft. **Boiler model:** Radiation/convection for 2,000cu.ft.; radiation only for 1,500cu.ft. *plus* background heating for 1,200 cu. ft. Above figures are for traditional insulation standards. Higher space heating outputs where Egerton insulation standards apply. Hot water from 25/30 gallon cylinder. Alternatively serves 45 sq. ft. of radiators. Adjustable throat restrictor incorporated. **Fire:** Any 16" Sofono continuous fire may be used. Luminous flame gas ignition burner available. Cast-iron or wrought-steel boiler has hand holes and can be supplied bower-barffed. Drilled, tapped, 1" B.S.P. one side. Reversible for left or right hand connection. **Combustion Control:** Adjustable ashpit door to fire. **Installation:** Brick opening 22½" wide x 13½" deep x 33½" high, hearth to underside of concrete lintel. Sheet steel liner available for brick opening. **Total Heat to Room of Installation.** Can be installed behind tiles with inlet and outlet grilles slatted in a faience return to fireback, or with Sofono modern self-convecting interior frame. Opening with faience return: 16" wide x 22" or 24" high. Opening with self-convecting interior frame: 20" wide x 28" high. Can be installed behind Sofono 'Contemporary' self-convecting cast-iron enamelled surround. **Multi-room Heating:** When air is ducted to room behind or above, inlet **MUST** come from neutral source, and outlet grilles **MUST** be closeable. **Tools, Accessories:** Ashpan and tool for combustion control, lifting ashpan, operating boiler damper and throat restrictor.



GRANGE-CAMELON IRON CO. LTD., FALKIRK  
A Federated Foundries Company





## SPECIFY SOFONO BOILER FLUE SETS

### SOFONO NORMAL DUTY FLUE SET

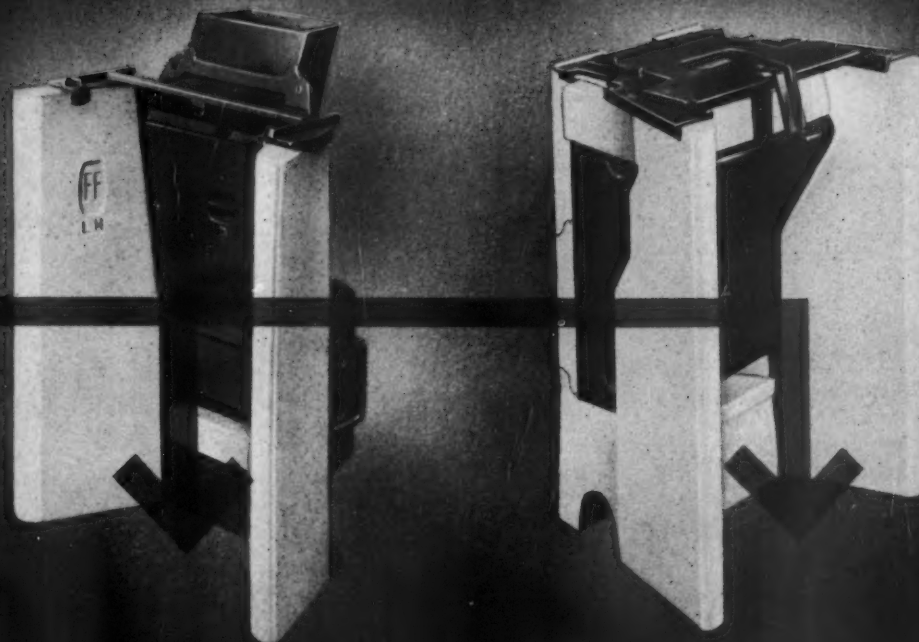
**Materials, Finishes:** One-piece cast-iron flue set, one-piece side cheek bricks in refractory. Fire in cast-iron, vitreous enamelled. Choice of 8 colours. Mild steel ashpan. Boiler in cast-iron, wrought-welded steel or copper. Cast-iron throat restrictor. **Space Heating:** Rooms up to 1,500 cu. ft. **Boiler Output:** Max. maintainable — 12,000 B.T.U./Hr. **Domestic Hot Water:** 30 gallon storage cylinder. **Radiators only:** Heats 50 sq. ft. of radiators. **Fire:** Any 16" Sofono continuous fire suitable. Luminous gas ignition burner available. **Construction:** Self-contained boiler flue with removable cover for cleaning. Refractory cheek bricks, and scone brick to base of boiler flue. Cast-iron or wrought-welded steel boiler has hand hole and can be supplied bower-barffed. Drilled, tapped with 2-1" B.S.P. holes one side. **REVERSIBLE** for left or right hand connection. **Combustion Control:** Adjustable ashpit door to fire. **Installation:** Brickwork opening 22½" wide x 13½" deep x 25" to underside of lintel. **Fire Opening in Surround:** 16" wide x 22" or 24" high. **Tools, Accessories:** Ashpan and tool for combustion control, lifting ashpan, operating flue damper and restrictor.

### SOFONO HIGH DUTY FLUE SET

**Materials, Finishes:** Flue set in refractory bricks. Cast-iron boiler damper frame, sliding damper. Sofono Inset fire in cast-iron, vitreous enamelled in choice of 8 colours. Mild steel ashpan. Boiler in cast-iron, wrought-welded steel or copper. Cast-iron throat restrictor. **Space Heating:** Rooms up to 1,500 cu. ft. **Boiler:** Max. maintainable — 18,000 B.T.U./Hr. **Domestic Hot Water:** Raises 18 gallons from 50° F. to 150° F. hourly. **Combined System:** Heats water through 30 gallon cylinder and heats 45 sq. ft. of radiators. **Radiators only:** Serves 80 sq. ft. **Fire:** Any 16" Sofono continuous fire suitable. Luminous gas ignition burner available. **Construction:** Stool for boiler; two-piece back brick to boiler flue; two cheek bricks. Cast-iron damper frame, sliding damper. Cast-iron or wrought-welded steel boiler has hand hole, and can be supplied bower-barffed. Two 1½" B.S.P. tapped holes both sides for flow and return. Plugged one side. **Combustion Control:** Adjustable ashpit door to fire. **Installation:** Brickwork opening 22½" wide x 13½" deep x 25" to underside of lintel. **Fire Opening in Surround:** 16" wide x 22" or 24" high. **Tools, Accessories:** Ashpan and tool for combustion control, lifting ashpan, operating flue damper and restrictor.



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## SILTEX

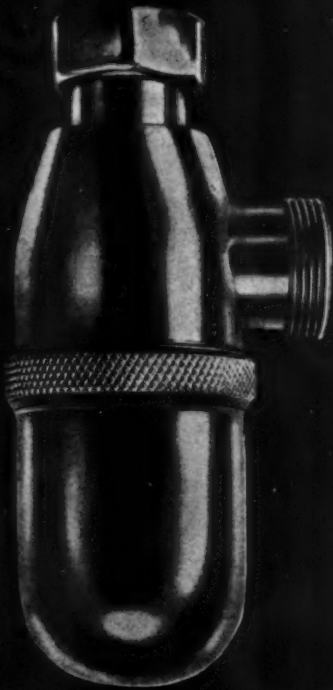
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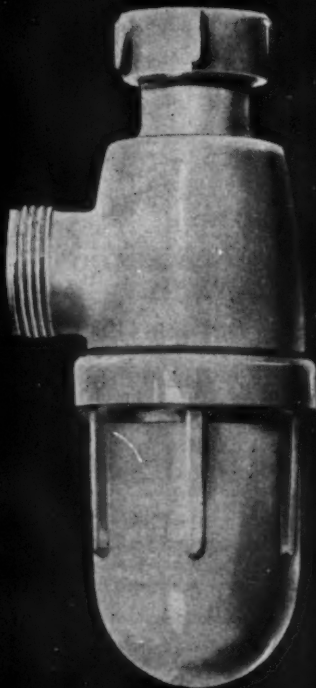
Fix tiles with Boote's "TYLOFAST" Tile Fixing Mastic!



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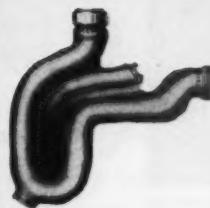
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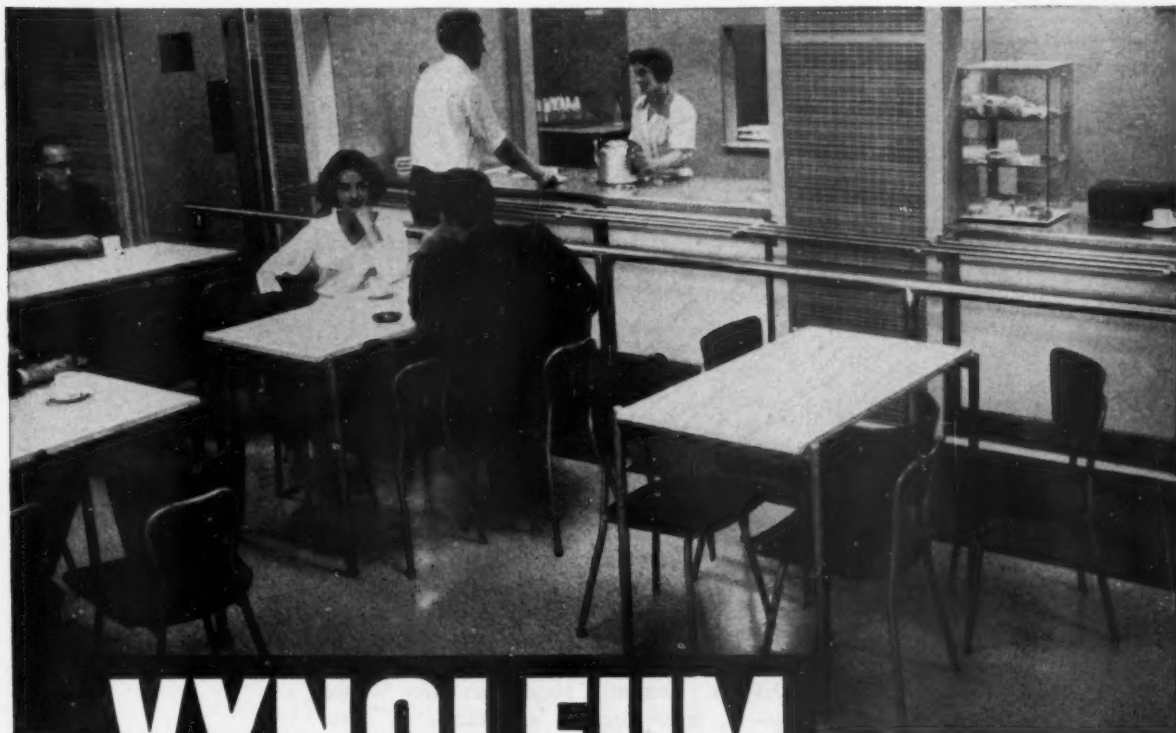
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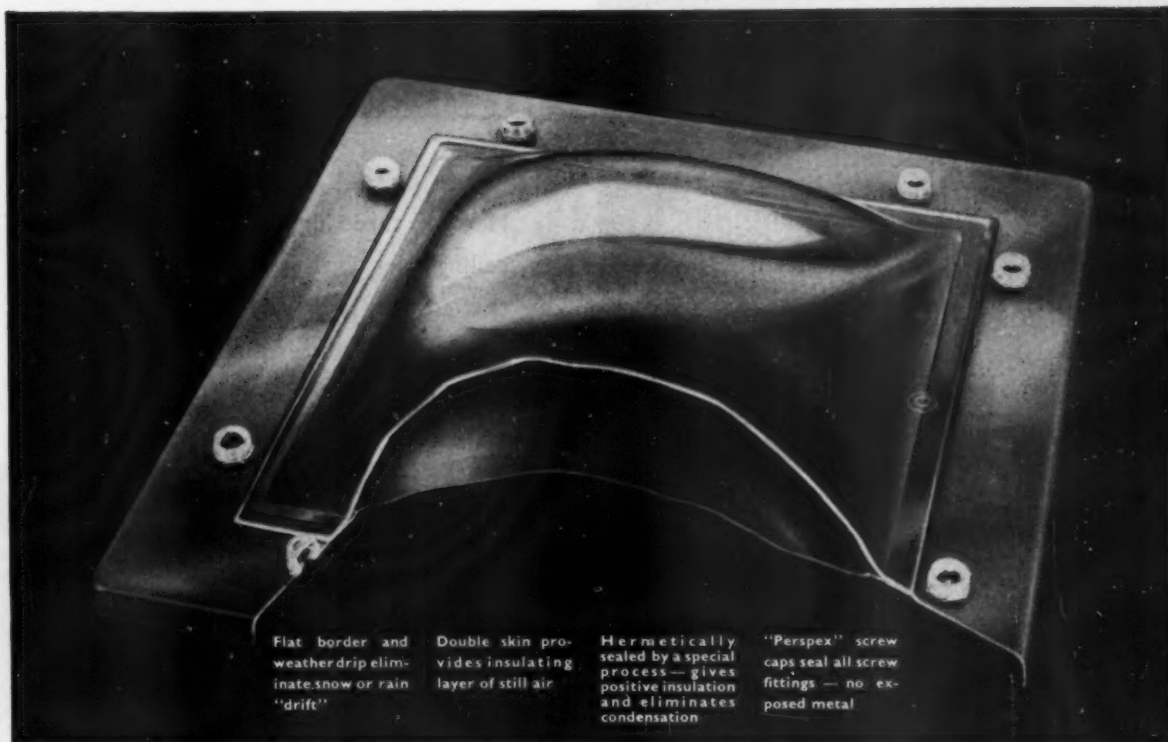


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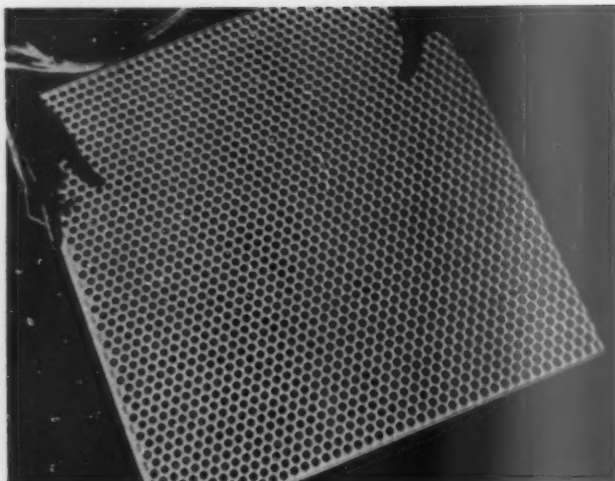


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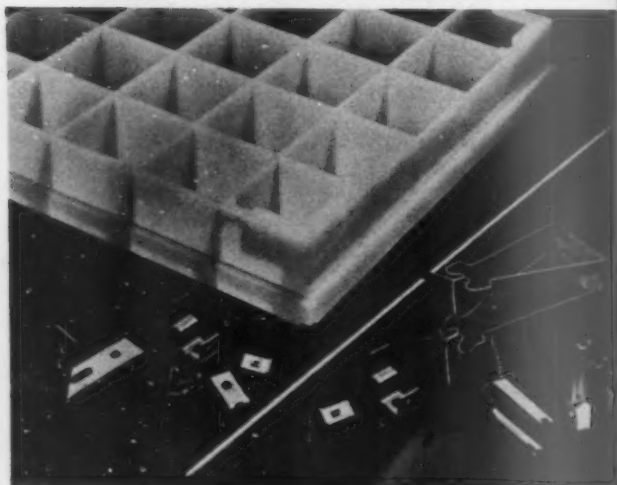
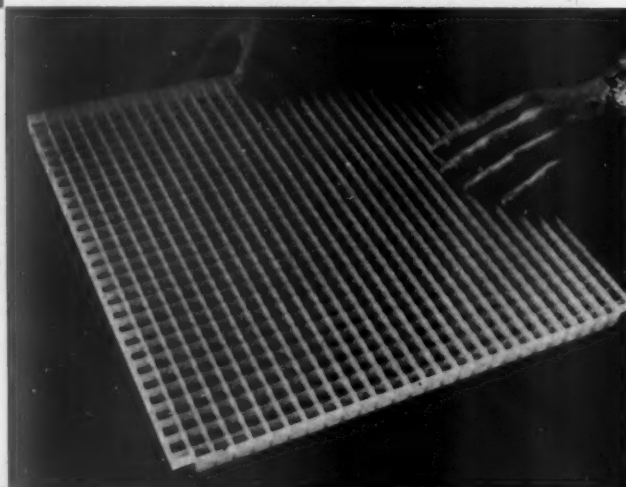
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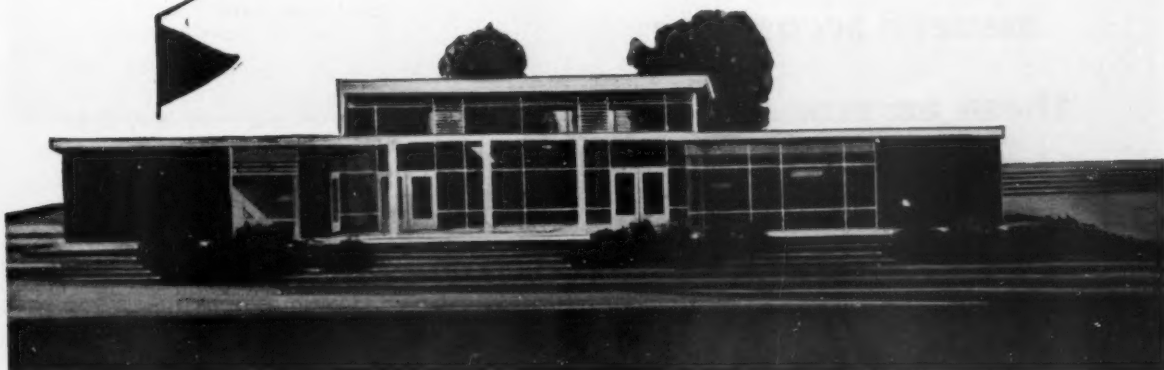
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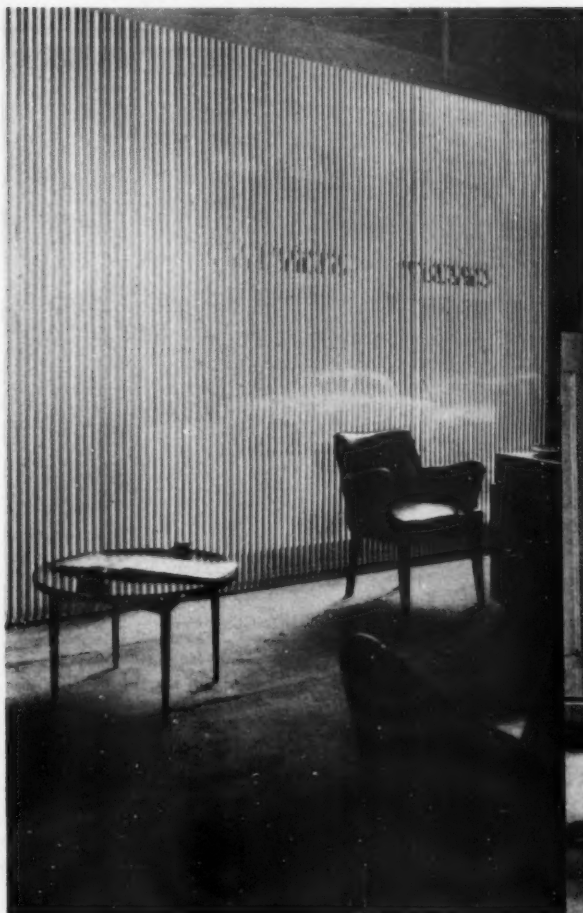
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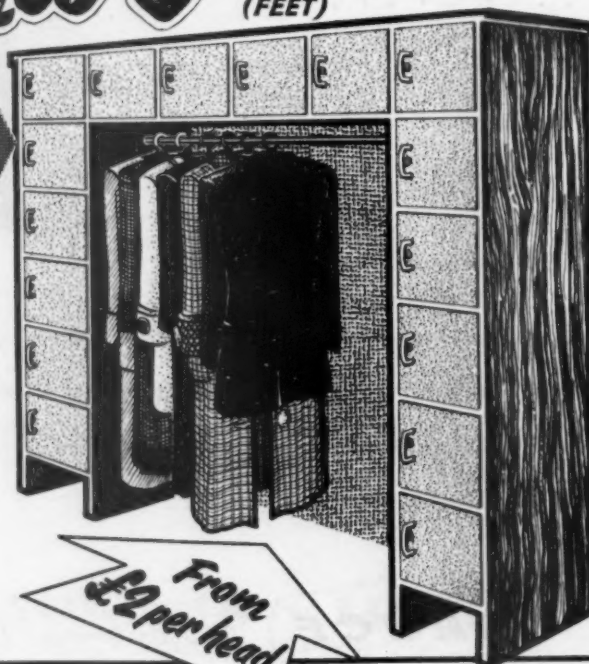
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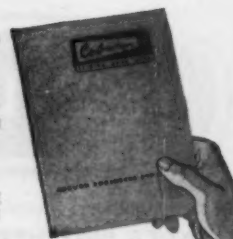
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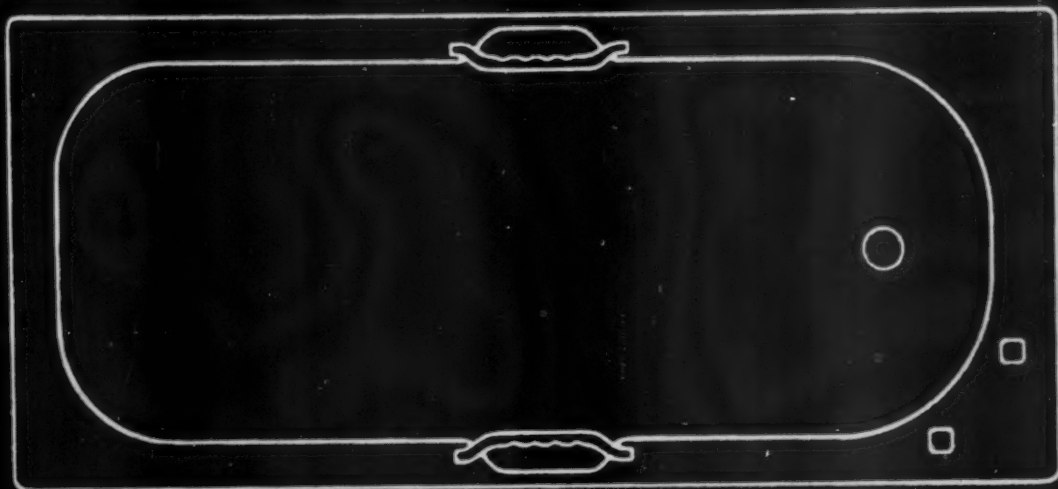
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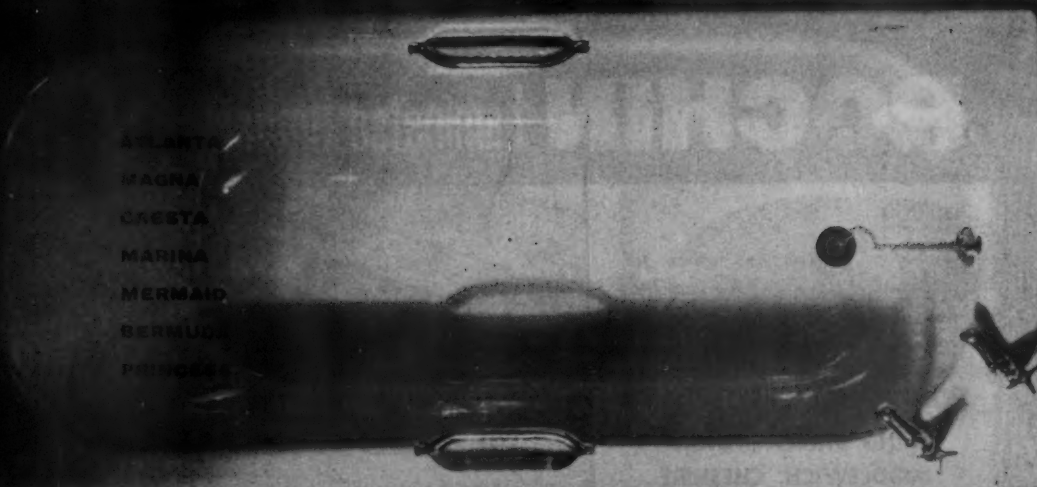




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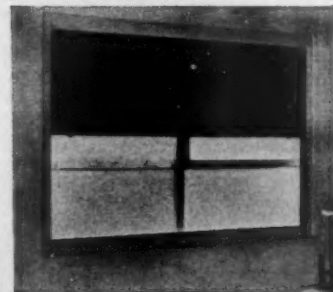
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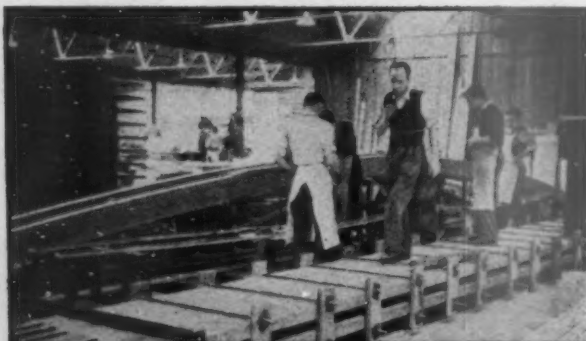
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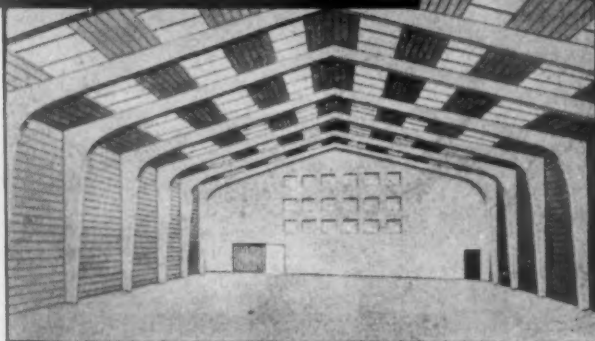
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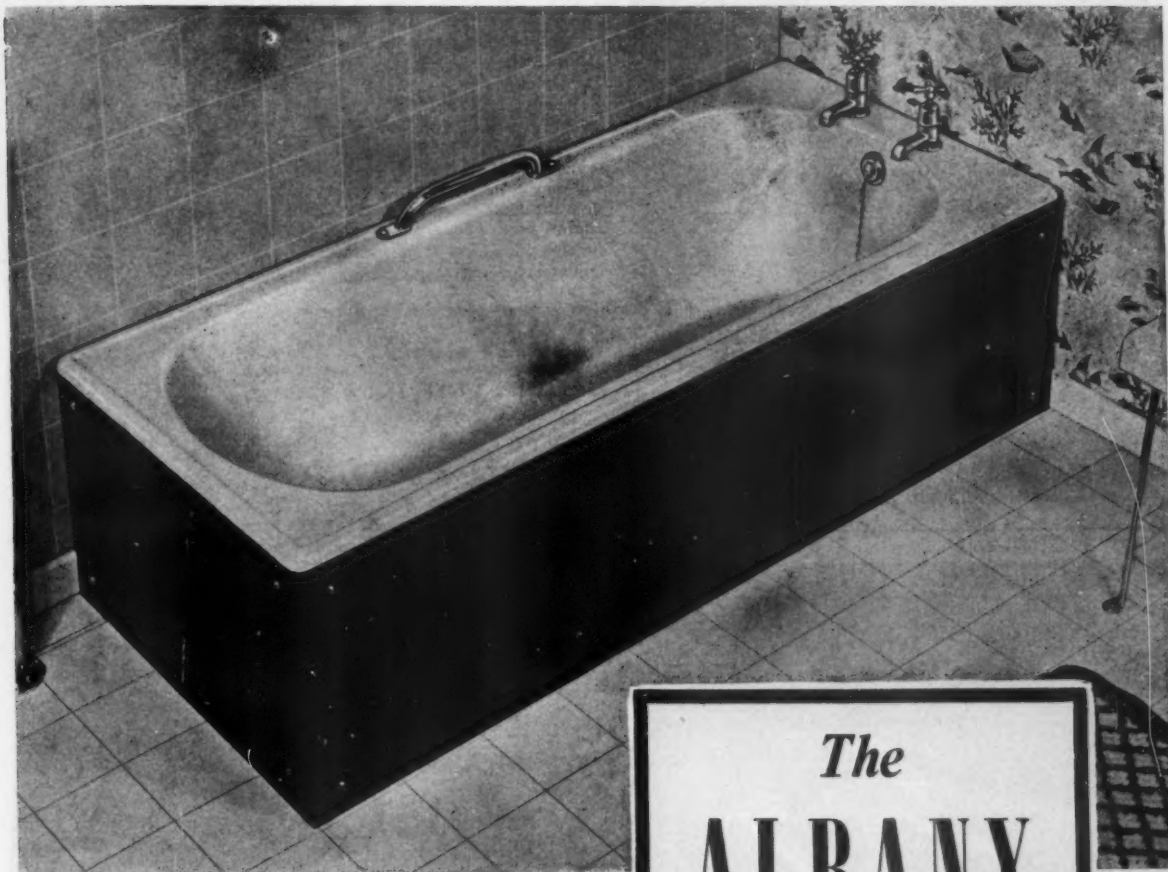
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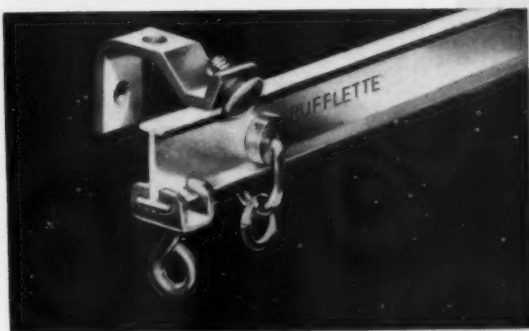
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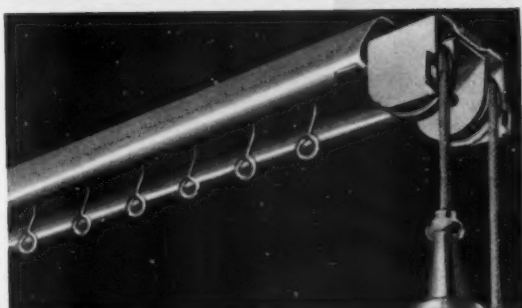
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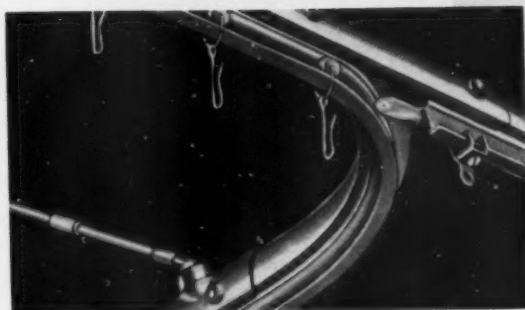
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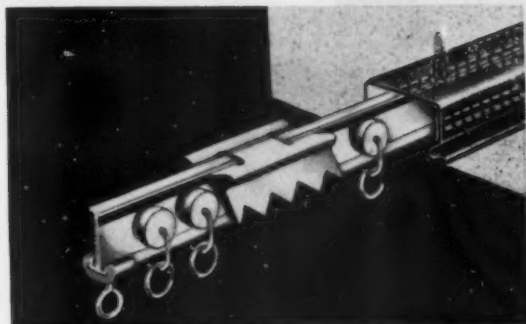
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*New Buildings at Bowaters Mersey Division, Ellesmere Port. Left: Administrative Block. Right: Greenwood Pulp Mill.  
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## hope for a lead

On Friday the Civic Trust is to hold its long-awaited conference on rebuilding city centres. Since the Piccadilly inquiry there have been a number of postponements and many people wondered if the Manchester conference might not make the proposed one unnecessary.

The delay has had one useful result. Opinion has been crystallizing in the meantime and the Trust has been able to consult some of the more active thinkers on the subject. Their opinions have been condensed into a short report which is being discussed at the conference. This report, although it includes a few inaccuracies and omits some useful suggestions which have been made recently, is, in itself, a very useful document which amounts to a clarion call to action by the Government.

In the meantime other bodies have been doing some hard thinking, including the Town Planning Institute who sent an admirable memorandum to the Minister of Housing on central area redevelopment.\* From the picture that is beginning to emerge it is clear that a new lead is needed from the Ministry, both in the form of financial support and of additional statutory powers and procedures for local planning authorities.

There is general acceptance that important central areas should be treated as new and more detailed comprehensive development areas. The old techniques, which have worked fairly well with residential zones, need to be worked out to a larger scale and strengthened by the addition of a three-dimensional outline plan in model form showing the general massing of buildings and any multi-level proposals for traffic.

But these 3D plans, however well designed, will not produce the desired end-product if the problems of multiple land ownership and finance are not solved as well. It must be frankly faced that the results of such planning may not be as financially rewarding as many believe. Proper redevelopment, with all that this means in the displacement of underground services and the construction of expensive new roads and pedestrian networks, open spaces and the like, may pay for itself in the long run but it is not likely to be nearly as profitable as the get-rich-quick speculative operations.

The Civic Trust suggests that the problems of ownership can be solved either by compulsory acquisition by the town, by public development boards constituted on the lines of new town corporations or by a combination of compulsory public acquisition and the pooling of private interests. This is the crux of the whole problem. If the conference results in enough useful views being expressed for the Government to be given a lead in this matter, the Trust will have made a notable contribution.

On the Cover:  
St. John's Church, Hatfield

\* See A. & B.N. May 25



### Abner new style

Although I had been warned of impending change, I must admit that I had quite a shock when I opened my A. & B.N. last week. Always my most avid reader, I was seized by panic like the old lady who had her skirts cut all round about by the wicked pedlar in the nursery rhyme. "Oh deary me surely it is not I?" I have tried to check this quotation in the Oxford Dictionary of Nursery Rhymes but cannot find it. As to the new arrangements, I am sure the editor would like to receive your comments.

### Land prices

The news that £250,000 was recently paid for half an acre of land near the centre of Luton has focused attention on the very high prices which are now being paid for building land generally. When the building boom is considered against the background of our very crowded island this is not very surprising. Sir Basil Spence recently pointed out that most of the building land in the country was rapidly passing into the hands of developers and *The Times* last week published a long article on land prices in which a number of other reasons for high prices were mentioned. There was nothing particularly new in the article, but to my mind the writer was insufficiently strong in his defence of the green belts and made excuses for the policy of "in-filling" advocated by interested parties.

Again, insufficient importance was given to the possibilities of urban renewal. It is criminal to go on allowing our remaining countryside to be eaten up for building while the centres, and much more than the centres, of our existing towns are so badly in need of rebuilding. In conclusion, *The Times* article came out deftly balancing on the fence. "Yet current prices of building land," it says, "do suggest that the balance between control and building needs is at the moment disturbed and that development plans should come in for close and urgent scrutiny to see what changes are needed in the light of changing social patterns. At the same time, if urban areas in a highly populated and industrialized country are to be controlled to the best advantage, building land in or near those areas will always be scarce and prices high."

This is not good enough. The green belts must be most jealously guarded and, unless the whole country is to become one vast suburb, the very strictest controls must be imposed and continue to be imposed on land for building. There will still be plenty of room to provide homes, factories, and all the other types of building, inside these controls and largely inside already built-up areas.

### On being well dressed

The Wholesale Clothing Manufacturers Federation has just selected the "10 best dressed men on all occasions" and has presented them with "Oscars". Only three of them were on view at the reception held in their honour. There is nothing very remarkable in this. Uninvited competitions of this kind have been going on for years. I would not have mentioned it at all had not Mr. Peter Trench, Director of the N.F.B.T.E., been among the 10. He was not among the three. I cannot tell you, therefore, what he wore when he received his prize. Furthermore, I do not know whether to congratulate him or commiserate with him. First of all, to be selected as well dressed by off-the-peg tailors is not quite the same as being crowned by a committee formed exclusively from Savile Row. Secondly, I was always told that the best dressed men were those whose clothes were not noticed. Mr. Lonnie Donegan, another of the 10, wore four pearl buttons on the cuffs of his blue suit at the prize giving. However, it is a fact that Mr. Trench is a slim, active, military figure. I can't remember anything about his clothes so he must be well dressed. The builders have scored a point in the industry's internecine struggle with the architects.

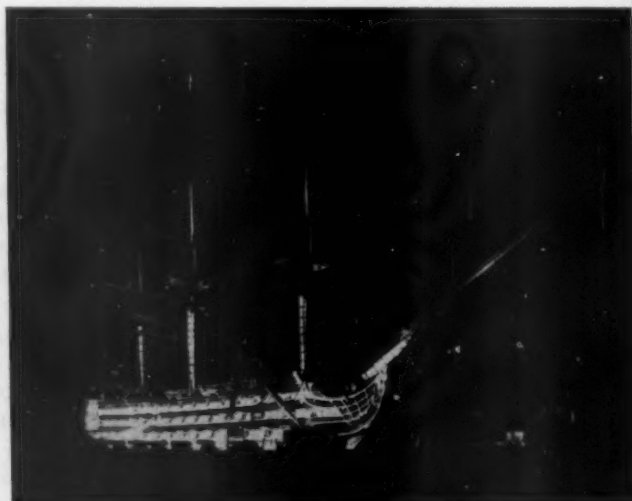
No-one would call either profession well dressed when seen in bulk. But if there were a competition for being badly dressed there is no doubt whatever that the architects would win hands down. Why, I know at least a dozen who actually take pride in being badly turned out. How many architects do you know who wear a bowler hat? No sir, they would rather be stunned or worse by falling objects on the site than wear the official crash-helmet of the building industry. Mr. Trench always wears a bowler. A well-dressed architect is at once regarded with suspicion by his fellows; such pandering to clients is unforgivable. Those who employ architects must be made to realize that at least some of them can be efficient in spite of the way they look.

The reason why so many builders are badly dressed is that they always have to wear their best suits when meeting architects and then forget and fill their pockets with samples of aggregate, old scaffold clips, variation orders and copper cramps. They also have to eat a great deal of bread and cheese on the site, and this affects their waistlines.

### Sir William starts well

In an interview published in the July issue of *The Director*, the journal of the Institute of Directors (the body which, I am told, put up Mr. Trench as a B.D.M.), the P.R.I.B.A., Sir William Holford, has some hard things to say about boards of directors as patrons of architecture. He finds them lacking in the "trustee function in architecture—the quality found in the older landlords who used to build for their descendants." He thinks that directors nowadays look only as far as the next balance sheet. Sir William finds boards conservative in their approach to new building methods and materials. "In this country" he says, "there is an almost morbid fear of being thought freakish."

*H.M.S. Victory provides a new setting for one of this year's Son et Lumière shows*



### Presidents all

Sir William is just starting his two years' hard labour and all we can do is to wish him strength and to encourage him to be as outspoken as possible. Sir Basil Spence, dubbed last week, laid about him excellently and remained aggressive to the end of his term. That's the way to do it, as Punch says as he bangs his victims on the head. Sir Basil has taken his family, granddaughter and all, to Venice. I hope that our thanks for his very hard work on our behalf may reach him if not there then on his return.

Mr. David Woodbine Parish, president of the N.F.B.T.E., is in the middle of his term and looks very well on it. Compared with the P.R.I.B.A. he has many more functions



to attend. In one day last week he drove the first ball in a golf contest (he doesn't play golf but I hear that he nearly drove the green); bowled the first ball in a cricket match (it would have been tactless to bowl the man out) and cast, rolled or bowled the first wood at a bowls meeting. In the evening he, with Mr. E. J. Cook the L.M.B.A.'s president, received 800 guests of the L.M.B.A. at the Guildhall.

The L.M.B.A., who are the London branch of the N.F.B.T.E., acted last week as hosts for the national federation's half-yearly meeting which you can read about on another page. My agent reported that the Guildhall had never looked more resplendent. The crimson cocanot matting, which is now spread on the floor for these occasions, adds very much to the richness of the interior. Builders are a jolly lot of people and the cares of the day's meeting were not allowed to interfere with their natural good humour at the reception.

### Professor Corfiato

The upper refectory at University College, London, was crowded one evening last week for a farewell party to Professor H. O. Corfiato, who retires as head of the Bartlett school at the end of the current term after 37 years' association with the school. He has occupied the chair of architecture for something over 12 years.

The company consisted of nearly 100 old students, a large number of present students and members of the staff. Three old students, John Brownrigg, Alan Devereux and Eric Ambrose, spoke about the Professor's early days and reminded the audience of his kindness and helpfulness to them when they were students. Alan Devereux then presented him with two choice pieces of antique silver subscribed for by past and present students and staff. Professor Corfiato, in a characteristically humorous reply, spoke more of architecture than of himself. When he joined the school, he said, the students were copying the classic; now they were copying the modern. No one had yet satisfactorily solved the problem of modern architecture. Of all professional men architects were the most intolerant. Few ever found good in the work of their colleagues.

This was the first major reunion ever held at the Bartlett. Eric Ambrose asked more past students to attend the annual dinner of the "Rogues and Vagabonds" which appears to be an unofficial post-graduate branch of the Bartlett Society. Anyone interested in meeting old Bartlett faces should write to Eric Ambrose care of the *Ideal Home Magazine*.

Those who have experienced Professor Corfiato's friendship and many kindnesses will wish him a long and happy retirement.

### Son et Lumière on H.M.S. Victory

The weather has done more than anything else to dampen *Son et Lumière* promoters in this country. We are also very short of suitable settings. This may sound nonsense in a country as packed with historic monuments as ours is but it is true. I remember a former Minister of Works appealing for ideas for settings. Many were suggested, but all were unacceptable, usually because they would interfere with someone's private rights, sleep, or convenience. On the continent residents of such towns as Versailles, Vezelay and Avignon put up with the night after night disturbance, which is often a good deal worse than a very loud radio next door, because they are good business people and know that these performances attract visitors. If the residents of Hampton Court Palace, for example, could have a stake in a *Son et Lumière* show there things might very well be different. Could not something on these lines be worked out?

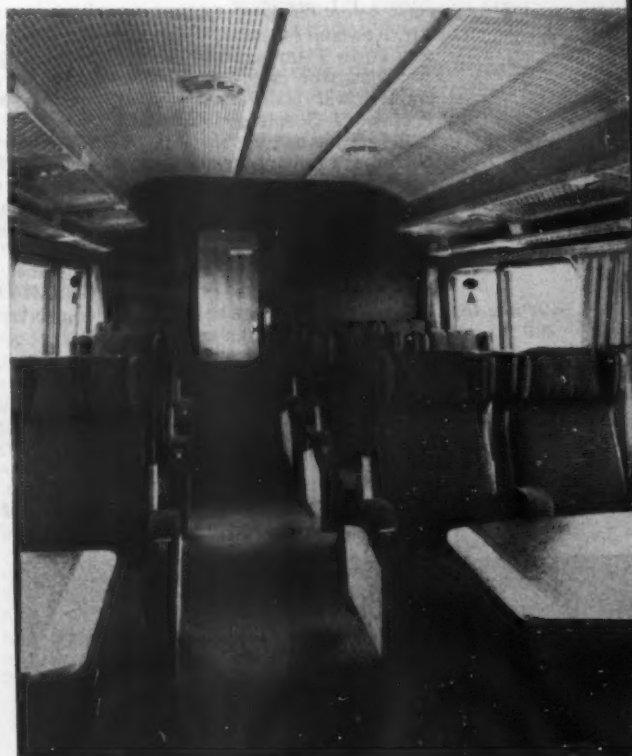
This year *Son et Lumière* has invaded Portsmouth Dockyard. H.M.S. Victory is the setting and the voices in the exciting story of her active life include those of Sir Laurence

Olivier as Nelson and Robert Morley. The lighting installation is by Atlas Lighting Limited. Sound equipment is by Standard Telephones and Cables and uses a three-track stereophonic tape. The lighting is manually controlled on cues from the sound track (see picture).

### The Pullman Diesel

After commenting on this subject last week it occurred to me that the new Pullman trains incorporate many ideas first shown to the public at an exhibition of railway design held at Battersea in 1957. On that occasion British Railways had invited a number of designers and contractors each to produce a passenger coach as a possible prototype for future production. All the designs were based on a standard British Railways chassis and frame.

Many of the results were interesting but only one was revolutionary. This was a centre-gangway coach designed by Frankland Dark. Where all the other designers had taken the traditional rail coach and developed it, Mr. Dark had approached the problem from the aircraft designers point of view. The result, as you can see from my photograph, was a real step forward. The present Pullman Diesels seem to me to owe a good deal to Mr. Dark's original design but I have seen no acknowledgment of this fact.



Frankland Dark's centre-gangway coach designed for British Railways in 1957

### Busmen's holiday lectures

The A.A. has once more organized some lectures for overseas architects and students on holiday in London. Well-known British architects will discuss their work and describe individual buildings. Most of these buildings are in London. Having heard about them, visitors are bound to want to see them. I hope the A.A. will be able to make arrangements for them to do so. I should point out that the meetings are open to overseas architects and students only.

**ABNER**

### The land crisis

Commenting on Mr. Henry Brooke's statement in the Commons on green belts and the price of land, Sir William Holford, R.I.B.A. president, said:

Mr. Brooke's statement is welcome in so far as there is to be no panic dismemberment of the green belts in response to the pressure for more building land. But that is only half the answer, and he has not given us the other half. Leap-frogging the green belts and building beyond them will raise the price of land beyond the green belts, and exacerbate and lengthen the journey to work in the centre. There is need for urgent and fundamental re-examination of the whole problem of future urban development and its effect on the countryside if we are not to run into even more serious trouble.

I am disappointed that Mr. Brooke sees no need to consider some action, fiscal or otherwise, to prevent the more extreme forms of exploitation of the undoubted scarcity of land—a scarcity that will always be with us. There is a limit to what most people can afford to pay for houses, and the more they pay for land the less there is left for the house. At the present fantastic prices it is becoming impossible to satisfy the demand without reducing standards of space and amenity, and lowering the standards of building. Good town planning becomes impossible when high prices, such as the £250,000 paid for about half an acre at Luton, compel the planning authorities to do what is financially possible, not what is socially desirable.

### New T.P.I. president

Mr. Rowland Nicholas, C.B.E., has been elected president of the Town Planning Institute for the coming year. Mr. Nicholas, who is city surveyor and planning officer, Manchester, will take office in November in succession to Professor J. S. Allen.

Before taking up the Manchester post in 1940, Mr. Nicholas was city engineer and surveyor of Sheffield. In post-war years he has been responsible for recasting the planning of Wythenshawe, which has expanded from a population of 40,000 to the present population of about 100,000.

Mr. Nicholas became an Associate Member of the Town Planning Institute in 1933 and a full Member in 1937. He was awarded a C.B.E. in 1947 for his work in connection with the City of Manchester Plan.

### The "clutter" code

Some 140 firms have now signed forms in which they have agreed to adopt the Code of Standards for Advertising on Business Premises. Many trade associations and contrac-

tors have also adopted it. Thirty-five thousand copies of the Code have been sold or distributed.

The consultative committee is satisfied with the success of the publicity operation to launch the Code and is now concentrating on concrete plans to ensure that it is properly observed, bearing in mind that the minister expects to see considerable progress in the coming months. This requires the utmost co-operation of the advertisers, and a sub-committee is being set up which includes some of the biggest users of signs on shops.

It is hoped that the Code will soon apply to Scotland. Discussions will be held with the Department of Health for Scotland and it may be issued to all Scottish local authorities with a special cover to distinguish it from the existing version in England and Wales.

### Design an exhibition stand

The National Federation of Clay Industries is inviting architects to compete for the design of an exhibition stand for the 1961 Building Trades Exhibition at Olympia. The assessor will be C. C. Handiside, A.R.I.B.A. Premiums offered are £150, £50 and £25. Full conditions available on or before July 30, from The General Secretary of the Federation, Drayton House, 30 Gordon Street, London, W.C.1. Closing date for entries: October 22, 1960.

## diary

### Royal Institute of British Architects

Now until July 23. Weekdays 10 a.m. to 7 p.m. Saturdays 10 a.m. to 5 p.m. Exhibition, "Hospital design and building". Now until July 15 from 10 a.m. to 5.30 p.m. Course on hospital design. Both at 66 Portland Place, W.1.

### Regent Street Polytechnic

Now until July 14 from 10 a.m. to 8 p.m. Annual exhibition of students' work. In the Fyvie Hall, 309 Regent Street, W.1.

### Victoria and Albert Museum

Now until October 1. Exhibition of drawings and etchings, by Giambattista Tiepolo (1696-1770), in rooms 70-73.

### Rural Industries Bureau

July 19 to 29. July 19 from 4 p.m. to 6 p.m. July 20 to 29 from 10 a.m. to 6 p.m. Exhibition "Made in the country". At the Ceylon Tea Centre, Lower Regent Street, S.W.1.

The Queen Mother is today (July 13) opening a new library to serve the Royal Borough of Kensington (right) to replace the old building in Kensington High Street (left). The new premises have been designed by Vincent Harris



## NFBTE HALF-YEARLY MEETING

*Builders were meeting last week against the background of the credit squeeze and shortages of land, labour and materials. Nevertheless, sound reasons were given for facing the future with confidence.*

### Land crisis and labour

In his review of the current situation, the president, Mr. D. E. Woodbine Parish, predicted that shorter hours and an increase of at least  $\frac{1}{4}$  an hour for the 1,250,000 workers in the industry might have to be met. He said they had to think seriously about the comparative status of building operatives in order to cope with very keen competition.

He reminded members that the wage increase negotiated last February had been less than that in other major industries and that the differential between the craftsmen's and labourers' rates was widened. Their industry was almost alone in reaching a settlement without a reduction of the normal working week. This was because they had agreed that the 46½-hour week would come to an end in the autumn this year. In many other industries, however, the result of last winter's negotiations was that a 42-hour week was established and already pressure was being brought to effect a similar reduction in the building industry.

"Our future labour needs are such that we shall have to face this problem with statesmanship and courage over the next few months," he said. He stressed that they should take the fullest advantage of summer conditions and that, if the working week were shortened, employers should ensure that the maximum output was achieved for the hours worked. This was partly a question of management and supervision and partly one for joint arrangement so that time-wasting breaks were eliminated. It might be possible to agree that overtime control be modified.

Saying it was vitally necessary in present conditions for member firms to have the maximum notice of any change in labour costs, the president suggested that the date of implementation might have a bearing on the amount by which costs could be increased.

It was not easy to advance the argument that to reduce building costs ultimately they must marginally increase them pro tem, but it was an economic fact of life that would have to be faced.

Referring to shortages of materials, he said that continuous representations were being made to overcome the difficulties involved. He emphasized, however, that members could do much to alleviate the position by refraining from panic ordering and unreasonable stockpiling of those materials in limited supply.

### Record volume of work

The president said the industry had in hand something approaching a record volume of work. How long this favourable position would last would be determined in one field at least—house building—by the amount of land which could be made available for development. They were in the midst of a land crisis and their federation, recognizing its imminence some time ago, had formed a working party to examine the whole question. Its report was submitted to the Minister of Housing and Local Government a few weeks ago, and followed by a deputation to explain the proposals. Since then it was understood that the minister was making some modifications in his land policy that would be of help to house builders.

"In the long term," continued the president, "the allocation of land between the various needs of the country—such as agriculture, education, industry, commerce, housing, transport and defence—is outside the control of one minister and should be treated as a Cabinet matter. If we are not to be found with constantly recurring land crises, a really profound and scientific long-term investigation and assessment is required. We are shirking our responsibilities to the future generations if we do not face up to this now,

*The president addressing the meeting*



and your federation will continue to press for it.' One thing is quite certain—the vilification of speculators and for that matter the nationalization of land will not have the slightest effect on the amount of land available."

### Bills of quantities

Another matter he knew they were interested in concerned the provision of bills of quantities for Government work. The Ministry of Works had been informed by the federation that it was not prepared at present to increase the limit in the National Quantities Rule above the present figure of £4,000. Their Executive Committee felt that builders' estimating costs would be increased considerably if the ministry's suggestion to raise the limit in the National Quantities Rule to £10,000 were adopted. These costs were bound to be reflected in higher prices for building work. In any event, such an action would put a considerable burden on those very skilled members of staffs in limited supply and would seriously disturb the progressive expansion of incentive payment schemes vital to increased productivity in the industry.

One of the most important fields of activity remained the recruitment of the right types of young men. To ensure this they had to see that the technical education and practical training facilities with the industry were of the highest order.

The apprenticeship figures were showing an upward trend and he hoped this improvement would be maintained. The federation was pressing strongly for more full-time pre-apprenticeship courses at technical colleges.

### Firm price tendering

On firm price tendering, the president said it had caused much concern that there was a widespread failure on the part of some building owners, particularly local authorities, and their architects, to comply with the letter or spirit of the national federation's statements. "We have abundant evidence of failure to accept tenders quickly after they have been submitted; of delays in starting contracts after acceptance; of substantial alterations of schemes after acceptance of tenders and, last but by no means least, of only half-hearted attempts at planning in advance and of providing proper and reliable documentations.

The result of these shortcomings was, inevitably, that the public were having to pay more for their building work. The matter was felt to be so important that the federation had pressed the National Joint Consultative Committee to issue a further document stressing once again the fundamental principles upon which invitations for firm prices for building work must be based.

In the discussion which followed the president's address, Mr. N. S. Farrow, M.B.E. (London), painted a rather gloomy picture of the effect of the credit squeeze. He said he was afraid many of their members were going to be in very great difficulties. "I am extremely worried as to the health of our industry," he declared. "We are all working very much harder and probably less effectively. I wonder whether, in the long term, we are going in the right direction and whether we are going to be able to control a situation which we have created ourselves by endeavouring to become more efficient."

Mr. I. R. Owen (Lancashire) said public indignation over the land crisis was developing very rapidly and this was going to be one of the biggest social and planning problems

*Continued overleaf*





## the NFBTE and the future

*Points from Mr. Trench's paper on the second day*

Let us start on the highest plane—the international one—and here it is difficult in one sense to dissociate our activities in the International Federation of Building and Public Works with our activities at home with the British Employers' Confederation. So long as this country, alongside the other members of the United Nations Organization, remains actively a member of the International Labour Organization, so long must the employers of this country play their part in the tripartite teams of government, employer and trade union representatives putting our view at Geneva. There are those who think that because the Russians are now demanding representation on committees as employers as well as government and trade unions we should pack up and spend our money to better effect elsewhere. This of course is what the Russians would like, for they would then have a free run at seducing the so-called under-developed countries to the detriment of the capitalist world. Speaking personally, I feel we should play the U.S.S.R. at their own game—forget cricket for volley ball, and get in and talk hard. If my point is taken this means that we should continue to send our tripartite teams to Geneva. It further means that the B.E.C. will continue to nominate the employer representatives and that, insofar as the building industry is concerned, they will continue to ask us to represent it. In order, as employers, to speak with one voice with our European colleagues, it follows necessarily that we should continue to be members of the international federation and participate in their deliberations.

This in itself may seem far removed from the day-to-day business of the ordinary member and, for that matter, from this paper. In fact this is not so. First, possibly unbeknown to you, some of your operatives may well be voicing a view at Geneva not only contrary to your interests but which, if not countered, might well influence future

national legislation. Secondly, on another occasion I have pointed out that our closer co-operation with a united Western Europe is as inevitable as it is inescapable, and for this reason alone, quite apart from the benefits of liaison on other matters, it is necessary that the British building industry should keep a watchful eye on the machinations of their opposite numbers in the European Common Market. So far as our own policy is concerned I am of the opinion that the time is fast arriving when we should treat our international activities less on an *ad hoc* basis and more as part of our day-to-day organization. By so doing I am sure that, if nothing else, we could get much more value from our international subscription.

### Overseas contacts

This naturally leads me to the question of overseas liaison. It would surprise many of those present to know the numbers by nationality who pass yearly through the portals of 82 New Cavendish Street—from Danes to Japanese. These gentlemen in the main are avid for knowledge and they cross-examine the permanent officials on all subjects from management consultancy to labour relations, and I have no doubt that they go back the better for it, and communicate to their fellow countrymen the best practices of the British Building Industry. Should we not be doing something similar? I know about the organized visits to the United States and the less organized visits to Paris and Tahiti, but these do not take the place of a systematic build-up of lessons to be learnt from our foreign counterparts. I believe that our building industry, no matter what some of our well travelled members may say, has a tremendous lot to learn from overseas, and with the increasing speed of communication and the possibility of a breakdown of political and economic barriers, I suggest that a function of this federation is to acquaint itself fully with the activities, procedures and technological advances of other countries—particularly those of Western Europe—and make known to its members what is going on elsewhere.

Nobody is a greater opponent than I am of interference in private enterprise industry by government—not from a political standpoint but solely because I believe that in a capitalist economy—and that is what we have here—industry is, with certain reservations, best left alone to manage its own affairs. Having said that, however, I have

## the President's address continued

they would have to deal with. "But the bona fide house builder is not the man creating this racket. Many people with foreign names are acquiring land on a speculative basis and holding the bona fide builder to ransom."

The stockpiling of bricks was the subject of a complaint by Mr. C. G. Drewitt (Bournemouth). He said that a quarter of a million bricks had been stacked on a Bournemouth site for nine months and not a man had been working there. Fictitious orders were being placed to secure supplies, he alleged. His comment brought a rejoinder that the builder concerned was lucky to have a site on which he could leave bricks for nine months.

In a witty speech Mr. G. Banks (Southern Region) said he had been doing some calculations on turnover and had discovered, to his great surprise and consternation, that he could have halved his turnover and doubled his profit.

Mr. E. R. Bowyer, president of the Federation of Registered House Builders, said the remedy for the labour shortage was in their own hands. He appealed to members to take more apprentices into their employment, saying that no firm of sound character could afford not to have apprentices.

Summing up, Mr. Trench said he thought Mr. Farrow was being unduly pessimistic. "I believe the future of this industry can be faced with considerable confidence," he said. "We are bound to have these fluctuations of Bank rate in a private enterprise state."

Of the brick shortage he said that more bricks had been produced in the first four months of this year than at any time since the war. Discussions had been held with the R.I.B.A. with a view to securing the wider use of other materials. He felt that though this would be a major difficulty for the next 12 months, it would be only a temporary one. Certainly no solution could be found along the lines of importing more bricks from abroad. Even without the 10 per cent import duty, bricks from Holland and Belgium would still cost some 50 per cent more than home-produced ones.

Mr. Trench said that part of their troubles these days was due to unscientific estimating. Consultations were taking place with the R.I.C.S. on this question and the federation was hoping to publish some guidance.

A discussion on technical information after lunch showed that members were far from satisfied with the existing level of technical understanding in the industry. The output of information was much greater than anyone could cope with. Brief résumés of the most important documents in builder's language that could be filed for future reference would be a big help. Members were referred to the excellent facilities provided by the Ministry of Works and the R.I.B.A. libraries, and by libraries at the technical colleges.



to admit that I am also a realist, and that in this day and age, when such industries as the motor car industry, steel, the export industries in general, aircraft, transport and, above all, agriculture receive financial and technical assistance from government departments, I wonder sometimes whether the building industry is not being left out in the cold.

Is it perhaps that our position in the economy and our influence on economic affairs is underestimated at top level? Is it based on a fallacy that we are a sheltered industry and contribute little to exports, or is it a failure on our part to shout loud enough in the past? Whatever it is I get the impression that the strength and standing of the Ministry of Works, which has so gallantly sponsored us since the war, is on the decline. I say this with some sadness for we have some very good friends in the Ministry of Works, and the two ministers with whom I have had dealings could not have had the industry's interests more at heart.

### How ministry could help

Where, then, can a strong ministry help us most? I suggest in two respects. First, and rather intangible, to safeguard our position *vis-à-vis* the financial and fiscal economic policies of any government. This requires above all statistical and economic evidence as well as a deal of research which can best be obtained by a government department. How much can we as a country afford to spend on construction and how do we compare with the other great nations of the world? We ourselves are working on this question and I believe that the results will be of more than academic interest; they will certainly surprise a few people who think that we already spend too much on construction!

What, too, are the true and long-term effects of fluctuating interest rates on the industry? How in its turn does the industry contribute to inflationary tendencies? What is its true composition? How does it affect and how is it affected by the national economy in general? Secondly, but more intangible, a strong Ministry of Works can help the industry—and for that matter the nation—in respect of technical efficiency. Building research has been passed to the D.S.I.R. under the Minister of Science, and there is a strong tendency even here to throw some of this as well as all the rest of the present Ministry of Works Technical Service on to the shoulders of the industry. Now it may well be that in due course, possibly sooner than some of us think, this heterogeneous industry of ours, made up of so many sections and interests, and firms of such incredibly different outlook and size, can take over its own technical service and thereby benefit not only itself but, more important, the building owner, but I do not believe that that time has yet arrived.

The transition period, possibly quite a long one—should be one in which industry and Government proceed together and evolve a *modus operandi* to the benefit of all concerned, particularly the building owner. And who is the building owner that will benefit most from a technically efficient building industry? Why, the very people who are now contemplating divesting themselves of the responsibility—the government departments, public and local authorities, for it is they who pay, out of the public purse, some half of the total amount spent on construction. How much then can the public purse afford in order to reduce building costs by only five per cent? If it spent £10 million it would still be in pocket.

### Technical service

But we must plan on what we know to be happening and not what we wish to happen, viz. that the Ministry of Works is contemplating relinquishing its technical service and that, to put it at best, the voice of the industry at top level will be no stronger than before. With this in view we have already laid the foundations of a Federation Technical Service, and now we must plan its growth. The long term amalgamation of the Building Advisory Service and the Federation Technical Service is to my mind inevitable, and to this I would add that the production and distribution of information of a technical nature, including educational managerial matter on the lines of APPROBA

in France, should be given far greater prominence in the future than in the past. The federation must face up to its growing responsibilities for technical as well as managerial education, for even were there to be a change of Government policy regarding the technical service of the Ministry of Works I believe it to be a role of the federation to promote progressive technical thinking among its members and to provide them with information on all technical advances.

In looking at the future activities of the federation it would be quite wrong not to consider for a minute or two our relationship with the professional bodies. It is my own view that the setting up of the Joint Consultative Committee was one of the most important steps for the industry taken over the past decade. This tripartite forum, so ably handled in its chairmanship by one of our own past presidents, has forged bonds between the architect, quantity surveyor and builder entirely absent in the past.

Its future depends on two main factors—the support it receives from the R.I.B.A., the R.I.C.S. and the N.F.B.T.E., and the weight given to its decisions. It is imperative in my mind that the three bodies concerned should be represented on the J.C.C. by their most able members, and moreover that a decision taken by its members should be accepted and respected by their respective organizations as being worthy of support. If the J.C.C. confines itself to those activities so obviously within its province and discussed at the recent meeting of regional J.C.C. representatives, and if it is composed of the best representatives that the industry can produce, then its findings should receive national recognition and acceptance and its contribution could be immense. To this end the national federation should support it to the hilt.

### Architect's problems

In the same way should we continue our studies of the problems of joint education in a co-ordinated endeavour to produce more capable leaders of the industry. We should not, however, underestimate the problems facing the architect today in this field as well as others. It is in the interests of all of us to help him in any way we can in his attempts to become more efficient. Could we perhaps take the initiative in bridging the gap between the Board of Architectural Education and the Board of Building Education?

This is not the time, possibly, to go into detail of our future activities in the field of industrial relations, but suffice it to say that here your federation has an outstandingly important part to play. The attitude of "them" and "us" is changing, and the National Joint Council might one day adopt as its motto a Latin tag thought up some 2,000 years ago—*Non tibi non mihi sed nobis* meaning "Not for thee, not for me, but for us". Neither the operative nor the employer can do without the other and together we must face the future, for together we comprise one of the nation's most important industries. The trade unions have their problems of demarcation and control, we have our problems of cost and productivity. These problems can be solved jointly. Let neither the trade union nor the employers' organizations think that to discuss each other's problems is a sign of weakness. The first step of course is to appreciate the problems of the other, and a little joint research into chips on shoulders and traditional beliefs would do no harm. This can best be done by close and permanent, but not always formal, liaison. Such liaison is the prerequisite to successful negotiations, and if it does nothing else but establish mutual trust it will be well worth while. As you have heard, we have already started a series of informal discussions with our joint executives. This is a step in the right direction and should be continued.

### The discussion

During the discussion warm tributes were paid to Mr. Trench for his paper and his views were generally supported; there was, in fact, hardly any criticism.

Members were not apparently in a critical mood, for even when Mr. P. Cavanagh (South-Western) suggested that there was a tendency for architects to pay less regard

to the interest of contractors and building owners, and wondered whether other members had noticed this, nobody took him up on it.

The "package deal" was sure to be unwrapped sooner or later, and it was Mr. A. Berryman (Northern Counties) who carried out the operation. He drew attention to what he called "the growing trend" for the architect to become a member of the contractor's staff, and looked forward to the time when members could say: "Not for thee, not for me, but for us". Was the federation in favour of this? he asked.

Mr. R. W. Willan (North-West) underlined the president's remarks on the land crisis by calling for a survey by the ministry. "If we knew how much land there was we wouldn't have this crisis," he declared.

Replying, the president said he regarded the question of the package deal as being in the same category as Have you stopped beating your wife? He had no intention of giving a snappy answer to this one.

#### NFBTE statement on land

In a statement on the land crisis this week, the federation urged the Government to carry out a careful and scientific assessment of the land needed by the nation for develop-

ment over the next 20 years and a factual survey of the land that is likely to be or can be made available.

The federation claimed that there were too many planning authorities who did not wish to make more land available for development. One authority, for example, proposed virtually to turn the whole county into a green belt.

Welcoming the Commons statement by Mr. Henry Brooke, Minister of Housing and Local Government, the federation said he had given a clear lead to local planning authorities. "They must examine the minister's remarks in the light of the urgent need to allocate more land for building purposes. While accepting the green belt principle, the federation agrees wholeheartedly with the minister that careful consideration should be given to the geographical details of any land so designated and to any proposals to extend green belts without considering what alternative land is available to those seeking to own their own homes."

The federation called for realism on urban redevelopment, saying: "The piecemeal redevelopment of old property with large gardens in the inner suburbs of towns and cities is not conducive to good planning or economic building. There is here a case and an opportunity for a new approach to compulsory acquisition for private development which will allow local authorities and private developers to work together without detriment to the interests of present owners."

## in parliament

#### Fine buildings to go?

Lord John Hope, the Minister of Works, was asked in the House of Commons if he agreed with the Historic Buildings Council for England that his cut of £200,000 in the year just ended had signed the death warrant of many fine historic buildings.

The minister said he thought it a pity to use exaggerated language and in that he would include the words "death warrant".

Lord John revealed that there were 31 historic buildings on the council's waiting list at the end of 1959. He said grants had been offered in six cases and would be offered in five others if inquiries showed they were needed.

In 19 cases applicants had been informed that no grant could be offered. One application had been withdrawn.

He said that he had recently told the Historic Buildings

Council that he was prepared to consider recommendations for grants to preserve buildings of outstanding historic or architectural interest. He must, however, express the hope that local authorities would take the lead in the field of preservation (June 28).

#### Museum expansion move

Negotiations have opened for the purchase of a substantial part of the site to the south of the British Museum intended to house the new National Library as part of the scheme for the expansion and rebuilding of the Museum, Lord John Hope, the Minister of Works, said in the Commons.

Subject to the availability of the funds it was hoped to complete the purchase of the whole of the site in a programme spread over the next six or seven years, he told Mr. Eric Fletcher (Lab., Islington E.).

Mr. Fletcher asked if it was not the case that the project had been agreed by the Government, and was it not the Minister's duty to see that it could be carried out.

Lord John said he very much hoped it could be carried out but he was bound to make it conditional on the money being available (July 5).

#### Brasilia site gift

Lord John Hope, the Minister of Works, in a written Commons reply to Sir Leslie Plummer (Lab., Deptford), said the Brazil Government were presenting a site to the British Government for the British Embassy residence and the Chancery Offices.

He added that his Permanent Secretary and Chief Architect recently visited Brasilia—the new capital—and he was now considering how they should proceed (July 5).

#### Scottish hospitals

Mr. John MacLay, Secretary of State for Scotland, in a Commons reply to Dr. Dickson Mabon (Lab., Greenock), said he expected expenditure on hospital building in Scotland to increase from £3.25 million in 1960-61 to £3.9 million in 1961-62 (July 5).

Mr. E. J. Cook, president LMBA, addressing the builders



# ST. JOHN'S, SOUTH HATFIELD

The Architect and Building News, 13 July 1960

41

Client: ST. ALBANS DIOCESAN BOARD OF FINANCE

Architects: BRETT, BOYD and BOSANQUET

Partner in Charge: PETER BOSANQUET

Quantity Surveyors: DAVIS, BELFIELD and EVEREST

Structural Engineers: OVE ARUP and PARTNERS

Acoustics: HUGH CREIGHTON

**T**HE clients required a church for a congregation of approximately 200 and choir of 50. The sanctuary and nave to be designed as a single unobstructed space, and normal vestry and ancillary accommodation.

## The Site

The building is orientated with the sanctuary at the west end for the following reasons: Access is from a neighbouring road to the east. Low ground to the east and a higher ground level to the west suggests that the climax of the building (i.e. the sanctuary) should be at the west end. The principal view of the building is from the west and this also necessitates the building climax with its more dramatic gable wall facing in this direction. This orientation allows sun to shine into the sanctuary at the time of the morning service.

▼ SITE PLAN SCALE: 1 IN = 96 FT

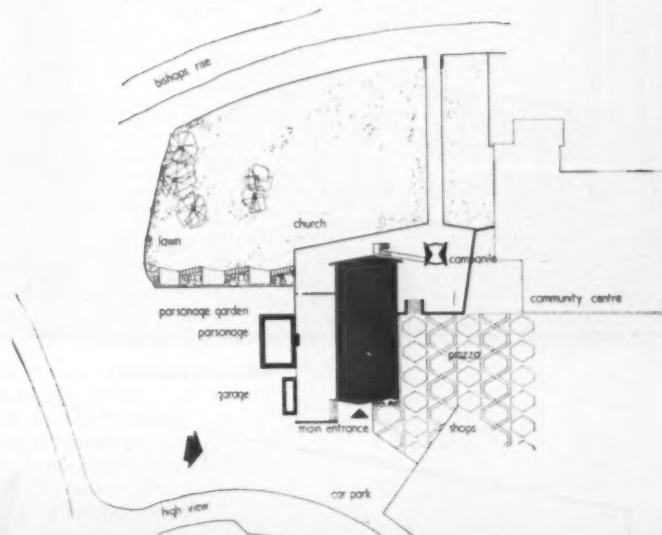
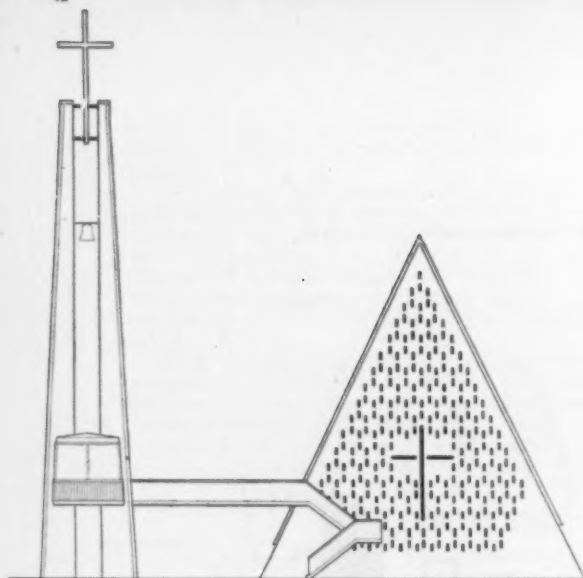


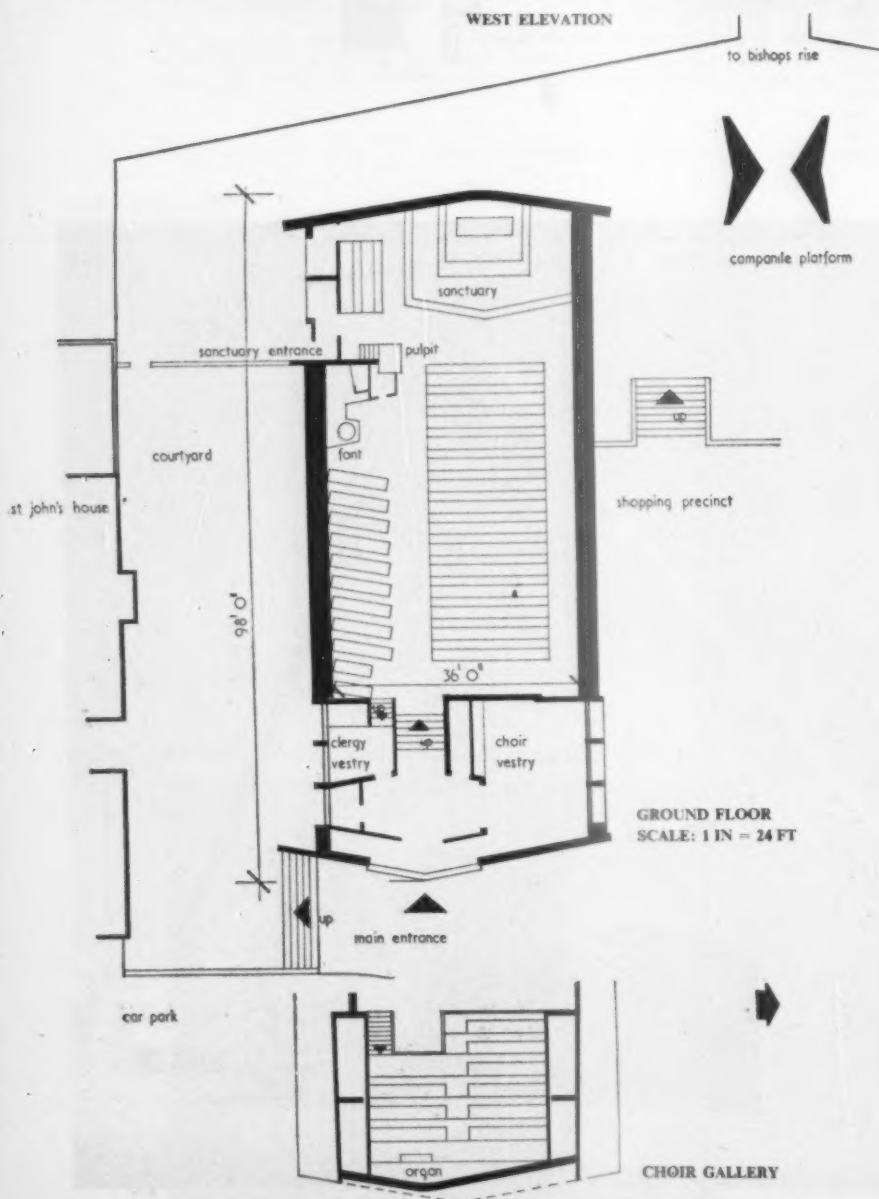
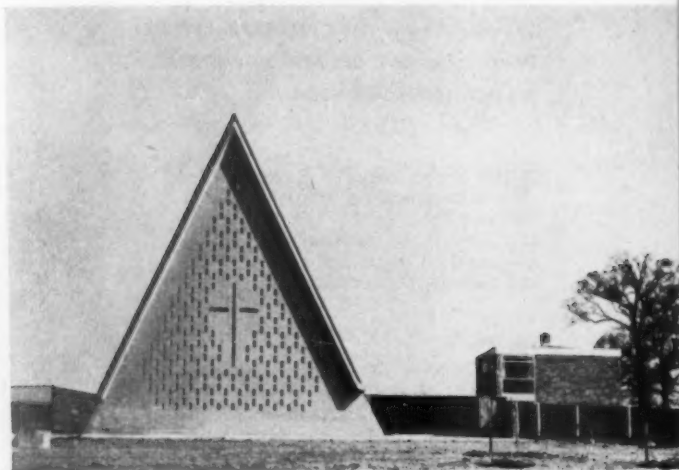
Photo: JOHN PANTLIN







WEST ELEVATION



## ST. JOHN'S

### Design

Two main considerations which fundamentally influenced the design of the church are:—By the use of mainly indirect daylighting to the nave (by reflection off ceiling surfaces) and direct daylight and sunlight to the sanctuary, a controlled illumination climax is attempted at the altar. The unity of the liturgy is symbolized by the general arrangement of the altar, pulpit, font, and lectern which are grouped closely instead of being dispersed in various parts of the building as is normally the case.

### Planning

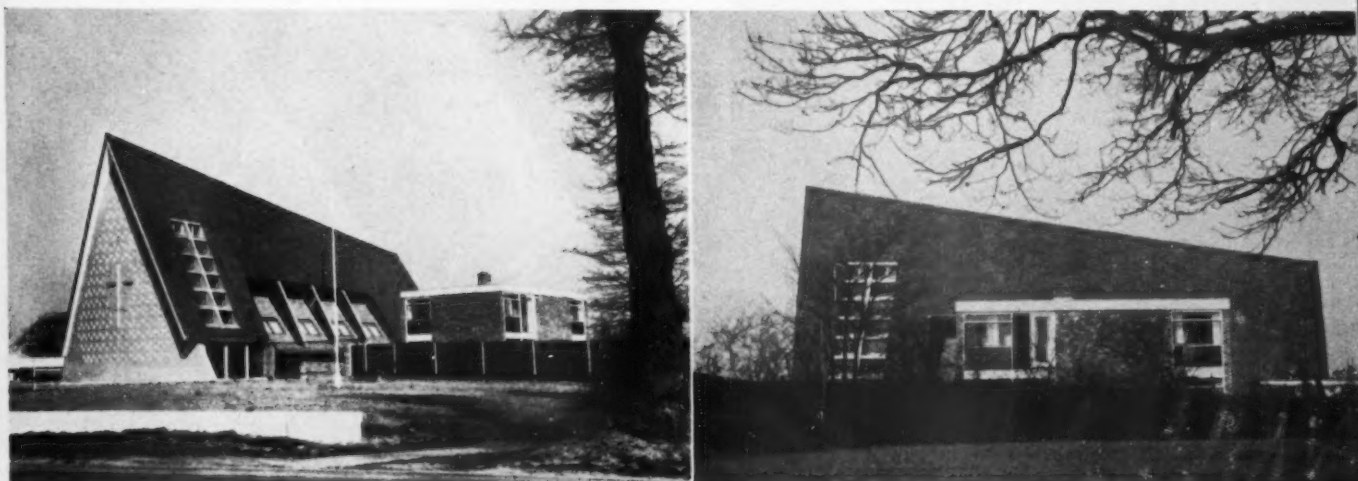
The entrance is at low level and vestries are arranged adjacent. Above the narthex a choir gallery is provided and congregational singing is thereby encouraged by means of both choir and organ being located behind, rather than in front of, those in the nave.

A few seats to the south of the altar, and an adjacent entrance to the building, enable a small part of the building to be used as a chapel for mid-week communions etc., when it is not desirable to use the nave.

### Detailed Design

Roof trusses are exposed either internally or externally, depending on whether the ceiling and roof plane is at the top or the bottom of each truss. At the point of crossing from one position to the other a series of high-level windows is provided which illuminate ceiling planes and provide indirect nave illumination.

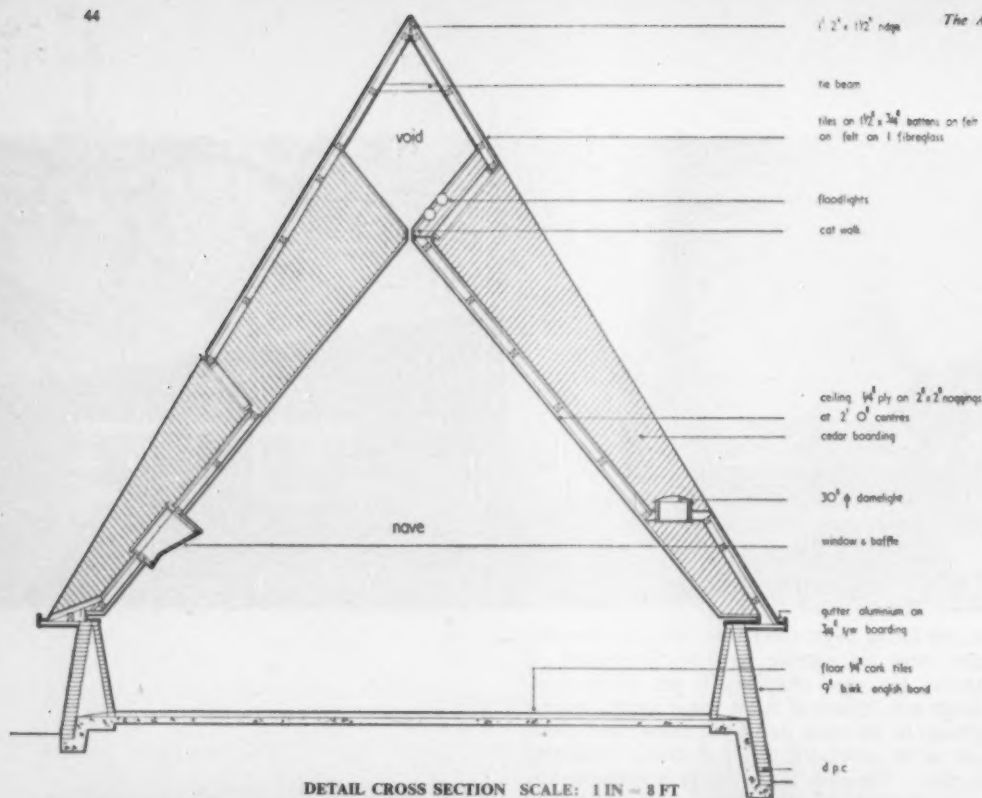




Above and facing page, three shots moving from west to south show the exterior form of the church. A campanile, see west elevation, is yet to be built. The design was influenced by the use of mainly indirect daylighting to the nave (see photo below) and direct sunlight to the sanctuary, giving a climax in lighting at the altar. The unity of the liturgy is symbolized by the close grouping of altar, pulpit, font and lectern

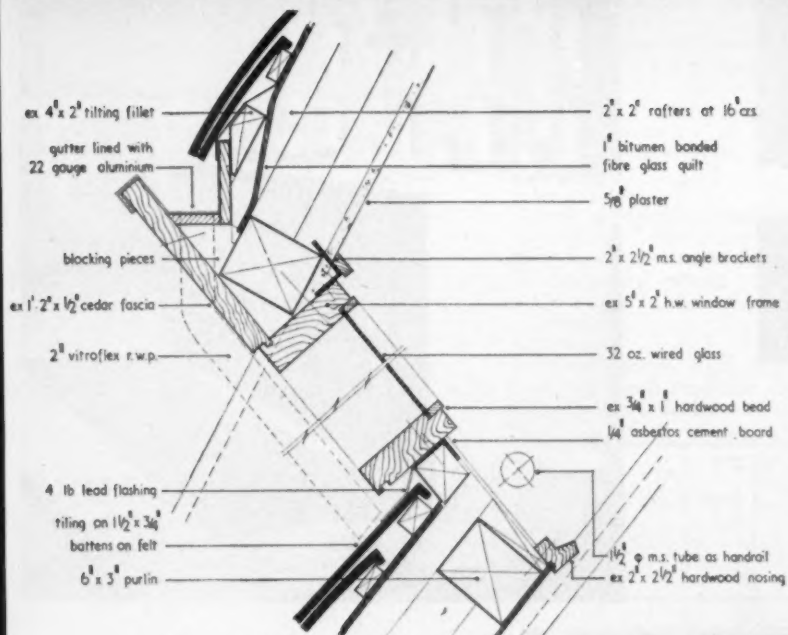
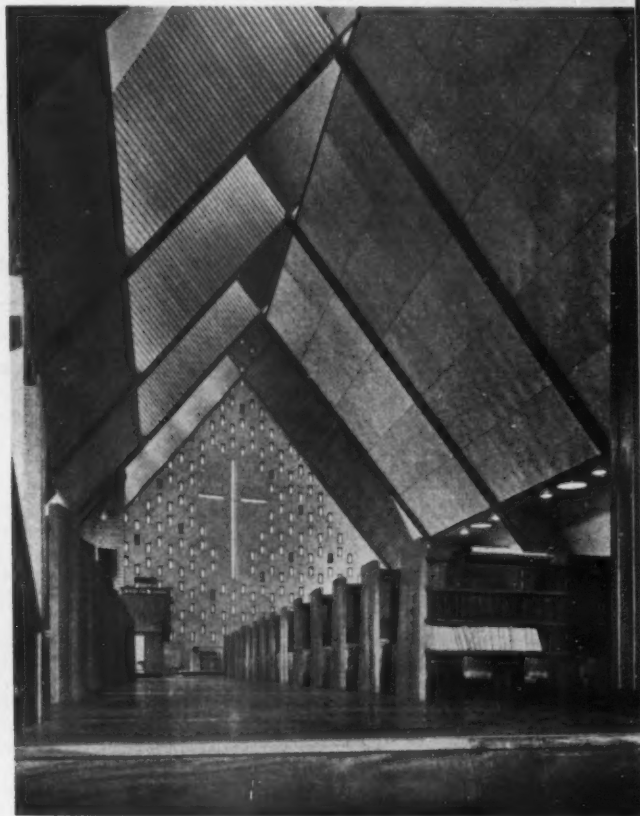
Photos: CLEM SHEPHERD



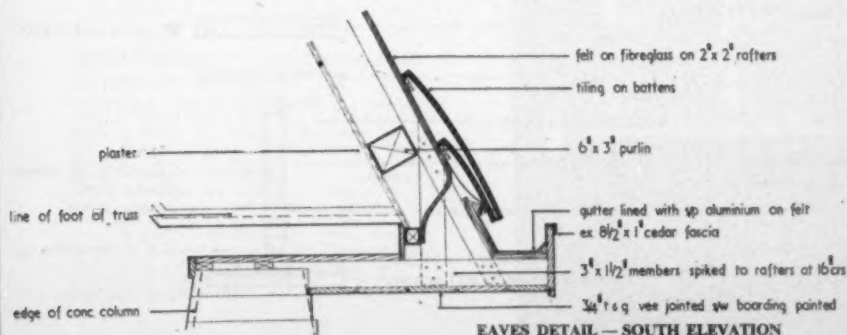


A close-up of the south face from the courtyard together with a detail section show the basic idea from which the church has grown. Roof trusses are exposed either internally or externally, depending on whether the ceiling and roof plane is at the top or bottom of each truss. At the point of crossing from one position to the other a series of high-level windows is provided which illuminate ceiling planes and provide the indirect nave illumination. Two key points in the section are detailed on the facing page

## ST. JOHN'S

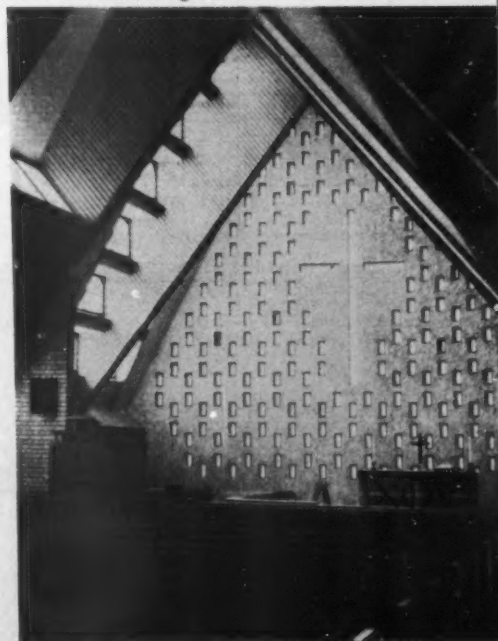


SECTION — HIGH-LEVEL WINDOWS SOUTH SIDE OF NAVE SCALE: 1/8" = 1'-0"

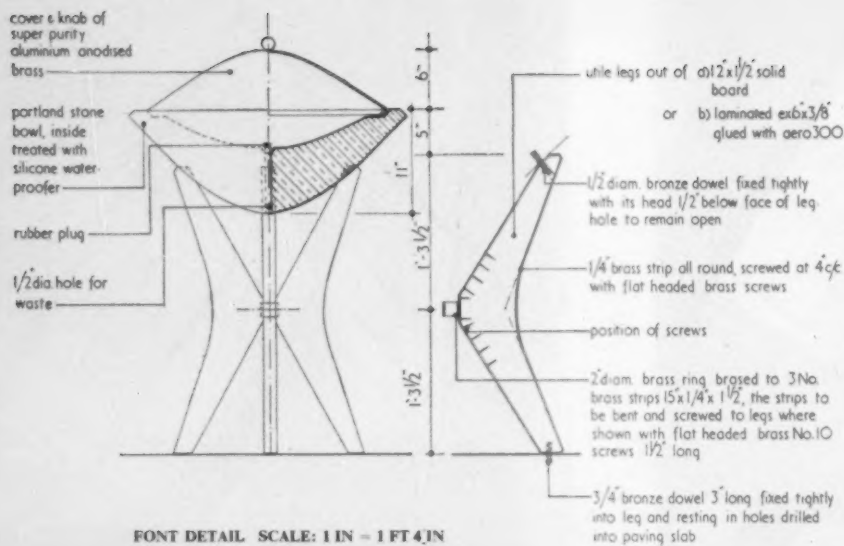


EAVES DETAIL — SOUTH ELEVATION

Above left, looking towards the choir gallery, and right, the altar end seen from the entrance. Vestries are arranged adjacent to this low-level entrance. Congregational singing is encouraged by means of choir and organ being located behind, rather than in front of, those in the nave. Below, specially placed windows are designed to give direct lighting on to the altar for the morning service

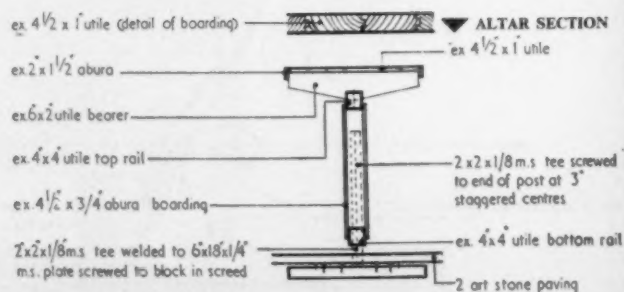
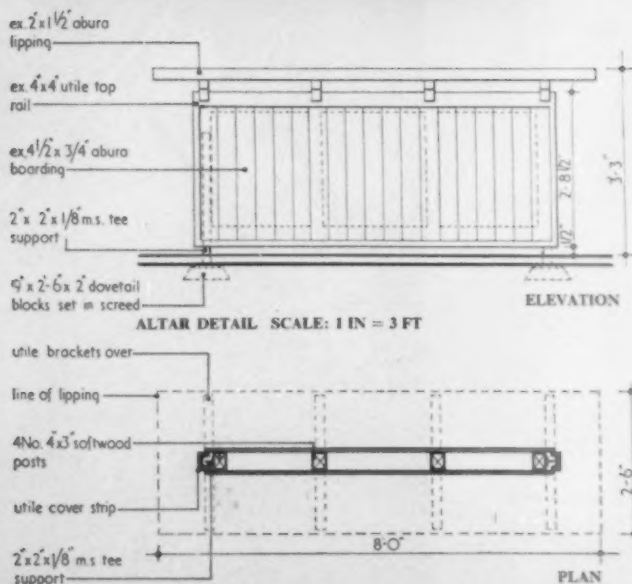
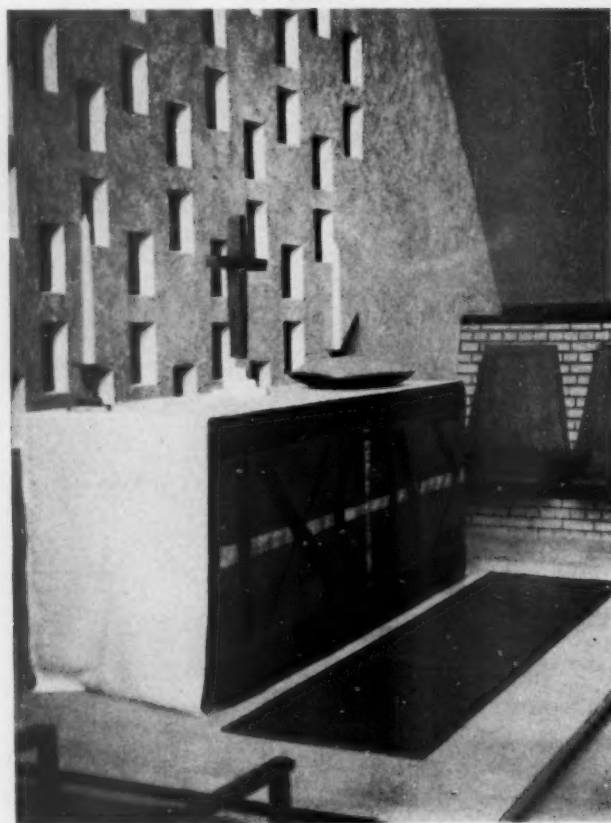






## ST. JOHN'S

Left and below, details of the font and altar (see also photo on facing page). Photos of the altar show the random piercing of the sanctuary wall which, together with the cross, give a jewel-like interest to this curved wall





Continued from page 42

The roof pitch is low and inviting at the entrance end, but steep and dramatic at the west end, resulting in a simple triangular form being presented to the view. A result of this arrangement is a sloping ridge and a warped roof plane.

A cross piercing the sanctuary wall and glazed in clear glass provides a focus of attention externally after dark and a pattern of tiny windows surrounding it give a jewel-like interest to the curved sanctuary wall.

### Construction

Glued timber roof trusses with steel connections at nodes are supported on short reinforced concrete columns; gable walls have reinforced concrete cores and yellow facing brickwork as permanent external shuttering (internal shuttering in concrete blocks).

The soaring character of the roof, emphasized by the articulation at roof truss joints where stainless steel pins are exposed, demanded a light material and a timber structure was the most appropriate solution.

Gable walls are curved both for aesthetic and structural reasons, the curve stiffening the walls against wind loads.

### Cladding

Roof trusses are clad externally with cedar board and internally with ramin slats behind which rocksil board provides acoustical absorption where required.

Roof planes are clay tiled.

Internal ceilings are clad in birch faced plywood and plaster. Oatmeal facing bricks are used for long flank walls internally. All internal surfaces have been selected in order to provide high reflection factors to ensure that the levels of indirect daylighting are adequate.

### Services

Under-floor electric heating has been selected in view of a favourable offer of "off-peak tariff" by the Eastern Electricity Board. This ensures ease of running and prevents the building from requiring a boiler house and its attendant unsightly equipment.

Artificial lighting within the nave is by means of floodlights at high level accessible from a cat walk above the main nave ceiling.

## COST ANALYSIS OF CONTRACT PRICES

Tender date .. .. .	August 1958
Work started .. .. .	September 1958
Work completed .. .. .	March 1959
Tender price accepted .. .. .	£27,914 (after reductions)
Highest tender price .. .. .	£39,194
Lowest tender price .. .. .	£28,638
Superficial area of buildings .. .. .	3,900 ft super

	Total £	%	Per F.S. s. d.
Preliminaries .. .. .	2,100	7.53	10 9½
Contingencies .. .. .	600	2.15	3 1
<b>Foundations</b>			
Reinforced concrete strip foundations, column bases and oversite slab .. .. .	2,100	7.53	10 9½
<b>Structure and cladding</b>			
Floors: Reinforced concrete .. .. .	570	2.04	2 11
Walls: Brickwork with concrete core and concrete columns .. .. .	1,800	6.45	9 2½
Roof: Timber framing and trusses including tiling, aluminium flats and flashings, etc., and rain-water goods .. .. .	7,070	25.34	36 3
Windows: Hardwood and metal (excluding glazing and painting, etc.) .. .. .	1,000	3.58	5 1½
Facing materials: Facing bricks .. .. .	750	2.69	3 10½
<b>Finishes</b>			
Internal and external glazing and painting, etc. .. .. .	1,100	3.94	5 7½
Ceilings: Plaster on E.M.L. and timber linings .. .. .	950	3.41	4 10½
Doors and screens: Hardwood generally, softwood flush doors .. .. .	350	1.26	1 9½
Walls: Plaster and hardwood linings .. .. .	500	1.79	2 6½
Floors: Cork tile, reconstructed stone and quarry tiles .. .. .	1,100	3.94	5 7½
<b>Fittings</b>			
Cupboards, etc. .. .. .	400	1.43	2 0½
Other fittings, staircase, pews, barriers, special church fittings .. .. .	1,750	6.27	8 11½
<b>Installations</b>			
Heating: Electric underfloor heating and convectors .. .. .	950	3.41	4 10½
Plumbing: Galvanized steel tubing throughout, 1 W.C.—2 sinks, tank, etc. .. .. .	220	0.79	1 1½
Experimental lighting .. .. .	100	0.36	6½
Electricity .. .. .	900	3.23	4 7½
Drainage .. .. .	600	2.15	3 1
<b>Site works</b>			
Concrete paths, steps, brick and concrete retaining walls, metal hand-rails, etc., timber screens .. .. .	2,900	10.39	14 10½
Lightning conductor .. .. .	90	0.32	5½

Total cost .. .. .	approx. £27,900
Total cost per ft super .. .. .	143s. 1d. (including external works and drains)
Cost per place .. .. .	£139 10s. 0d. (including external works and drains)

General Contractors: ABBISS & HALE LTD.  
Sub-contractors and suppliers:

Altar Frontals: The Warham Guild Ltd. Aluminium Windows: Henry Hope & Sons Ltd. Cork Tile Flooring: Rowan & Boden Ltd. Doors: Woodworth Joinery Ltd. Electrical Installation: Eastern Electricity Board. Foundation Stone: J. Bysouth Ltd. Indirect Nave Lighting Fittings: Holophane Ltd. Ironmongery: Walker & Wood Ltd. Lightning Conductor: R. C. Cutting & Co. Ltd. Organ: Alfred E. Davies & Son Ltd. Pavings: The Wharf Lane Concrete Co. Ltd. Pews: The Faith Craft-Works Ltd. Pulpit, Altar and Font: Walker-Symondson Ltd. Roof Structure: Rainham Timber Engineering Co. Ltd. Sanitary Goods: Pratt (Watford) Ltd. Steel Balustrade: Best & Lloyd Ltd. Window Control Gear: Arens Controls Ltd.





Detail of the entrance front

Photo: JOHN PANTLIN

## ST. MARY'S, SOUTH RUISLIP

Client: The REVEREND P. H. THOMPSON

Architect: LAURENCE KING

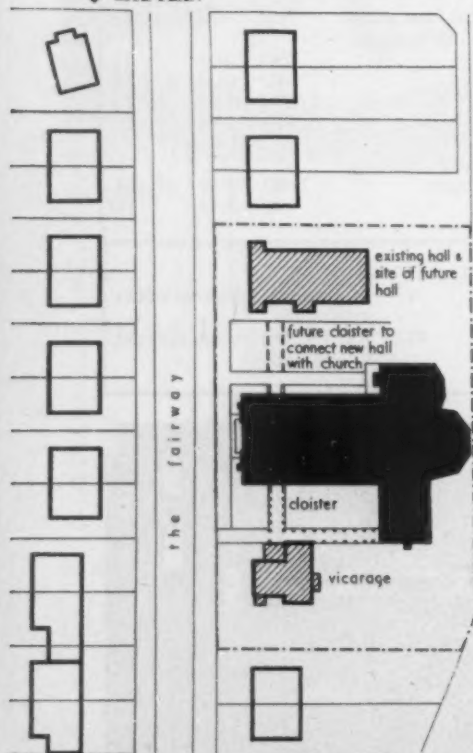
Partners in Charge: LAURENCE KING and IAN PICKEN

Assistant Architects: JOHN MONEY-KYRLE and NIGEL MELHUSH

Quantity Surveyor: L. C. ROBERTS

Engineering Consultant: OVE ARUP

### ▼ SITE PLAN



**T**HE new church replaces a wooden dual-purpose hall which has served the parish for 21 years. Building was started in October, 1957 and the church was consecrated on May 2, 1959. A vicarage was completed as an integral part of the scheme in 1956.

#### Site Layout

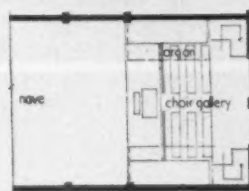
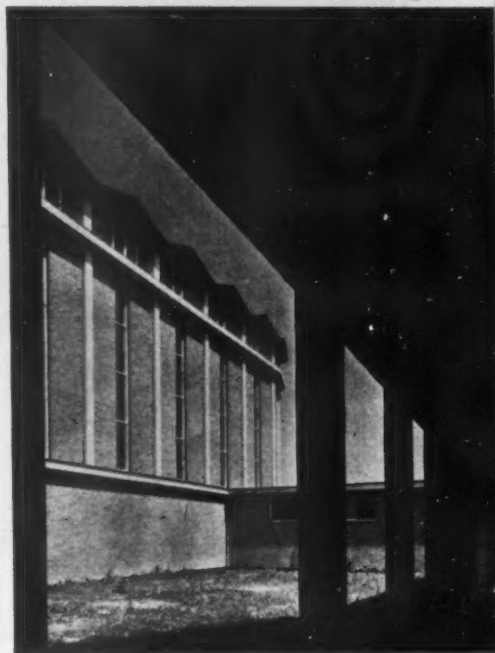
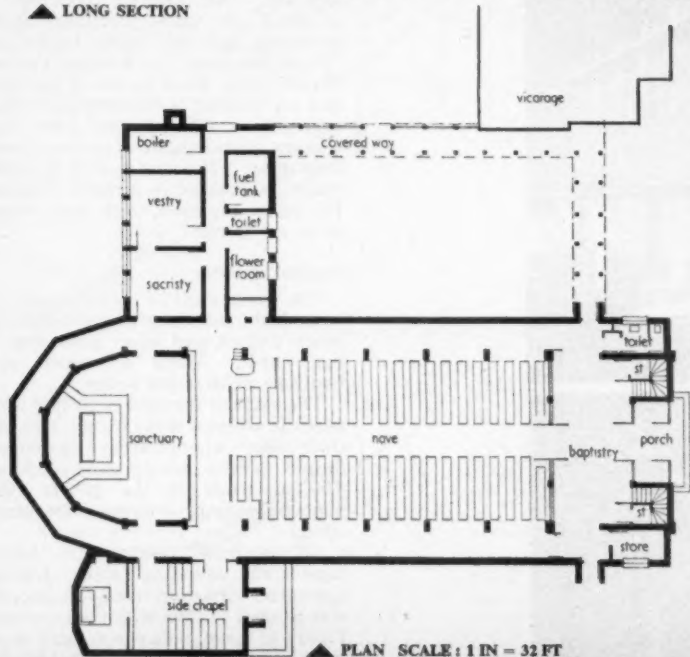
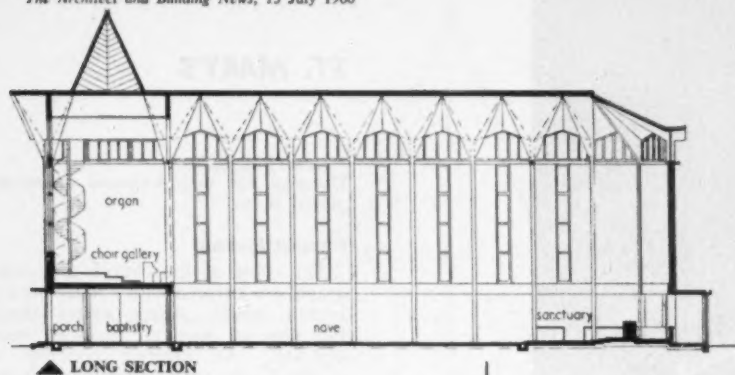
The church is placed centrally on the site, with a side-chapel to the north-east and the vestry block and vicarage to the south. The side-chapel has an external entrance and is also entered from the nave through glazed doors. The vestry block and vicarage are linked to the church by a covered way and the vicarage garden is screened by a wall in honeycomb brickwork. A tarmac drive-in provides access for cars and there is a small new park.

#### Construction

The main structure is a reinforced concrete frame supporting a reinforced concrete folded slab roof. Panel infilling is in 13½ in brickwork carried on edge beams between the columns at the level of the aisle roof. Walls to the nave are pierced by narrow vertical windows which rise from the level of the edge beams to the springing of the roof vault. The roof over the vestry block and aisles is a 6 in slab supported on 11 in cavity brickwork.

The bellcote is constructed of six 6 in x 3 in main rafters held by metal base plates let into the concrete and bolted at the apex. North and south sides of the bellcote are faced with cedar louvres.

The roof of the side-chapel is carried on small timber portal frames in



Above and below, two shots of the south face. A reinforced concrete frame supports the reinforced concrete folded slab roof. Infil panels of brickwork are carried on an edge beam at the level of the aisle roof





## ST. MARY'S

*Continued from page 48*

Douglas Fir with exposed cadmium plated bolts.

### External Finishes

The roofs of the church and side-chapel are covered with copper on 2in stramit board. Aisles, vestry block and covered way are covered with asphalt. All external concrete is rendered in white Portland stone rendering and the facing bricks are "Essex Primrose" by Richard Parton. Panels below the Crucifix at the west end are finished in Westmorland Slate aggregate. All pre-cast cills and window surrounds are in artificial Portland stone. The west end of the side-chapel is panelled in Striated Douglas Fir faced plywood, with teak cover strips sub-fascia.

### Internal Finishes

The upper walls of the nave and the walls of the side-chapel are plastered in white cement and silver sand with a flat finish. Walls to aisles and baptistry are in facing bricks.

The vault of the nave is treated with acoustic asbestos spray except over the choir gallery where there is a suspended fibrous plaster ceiling painted blue. The underside of the gallery (the baptistry ceiling) is painted the same colour.

All internal columns are bush-hammered, revealing green granite aggregate, the arrises being left smooth and painted to tone with the concrete. Floors in nave, side-chapel and baptistry are of gurjun wood-block. Semastic tiles are laid in the vestry block and west end toilet, and grey linoleum in the gallery.

### Joinery

All joinery in the church is in wax polished sapele or utile. Organ casing is panelled in sapele faced block board. The screen between the nave and baptistry is fully glazed with the exception of the heating cabinets and two fretted panels (of Madonna and Child and Pieta) in  $\frac{1}{4}$ in sapele faced plywood.

The canopy over the altar is made up of four small hyperbolic parabolas and hardwood, supported on 2in metal tubes sheathed in timber with gilded fluting.

### Heating

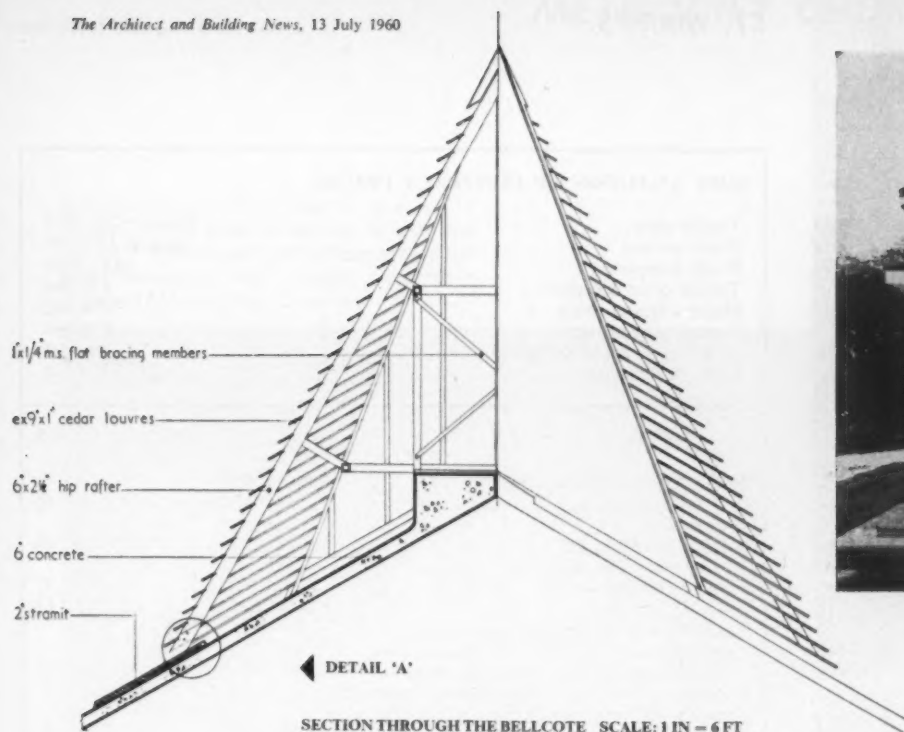
The main heating is by an oil-fired boiler in the vestry block which supplies hot water to "Dunham" convectors in the nave, baptistry, side-chapel and gallery. Subsidiary heating in case of down draughts is by electric tubular heaters placed at high level below the clerestory windows.

### Lighting

The main lighting in the nave is by five-light pendants in anodized aluminium to bronze finish, with floodlights shining on to the vault of the roof and additional spotlights in the Sanctuary.

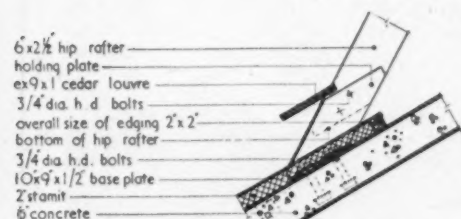




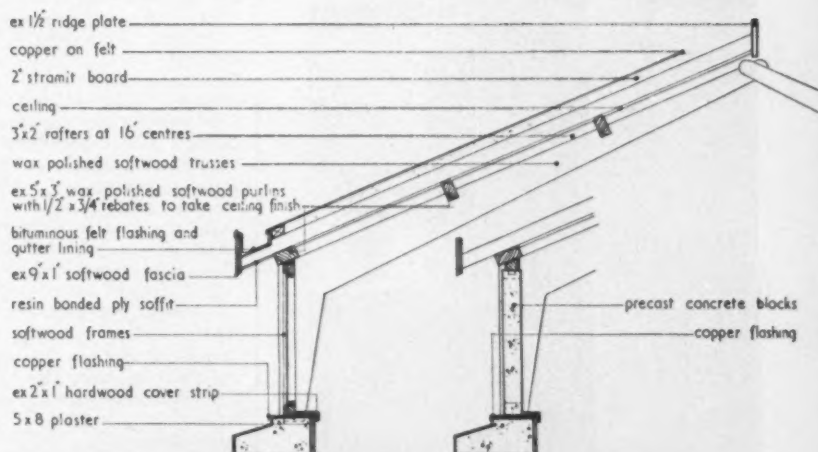


DETAIL 'A'

SECTION THROUGH THE BELLCOTE SCALE: 1 IN = 6 FT

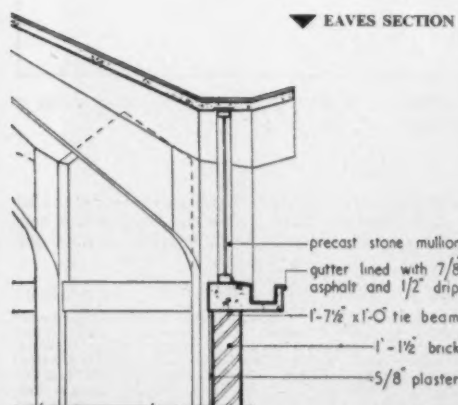


DETAIL AT 'A'



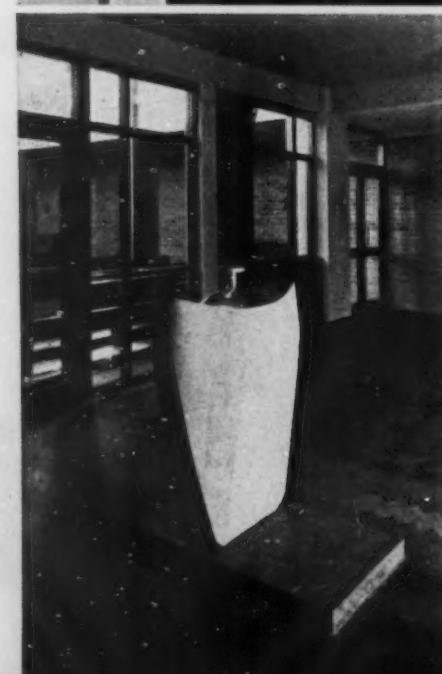
SECTION THROUGH SIDE CHAPEL ROOF SCALE: 1 IN = 3 FT

Top, entrance doors to the side chapel and, right, the main porch. The roof structure of the side chapel is detailed, centre right



EAVES SECTION





## COST ANALYSIS OF CONTRACT PRICES

Tender date .. .. .	October 24, 1956
Work started .. .. .	August 13, 1957
Work completed .. .. .	May 1959
Tender price accepted .. .. .	£59,944
Highest tender price .. .. .	£78,902
Lowest tender price .. .. .	£59,944
Superficial area of buildings .. .. .	6,720 sq ft
Cube of buildings .. .. .	217,800 cu ft

	Total £	%	Per F.C. s. d.	Per F.S. s. d.
Preliminaries and insurances .. .. .	2,850	4.896	3½	8 6½
Increased costs .. .. .	2,200	3.793	2½	6 6½
<i>Foundations</i>				
Ring beams included .. .. .	3,040	5.241	3½	9 0½
<i>Structure and cladding</i>				
Floors: Balcony .. .. .	195	0.336	½	7
Walls .. .. .	6,230	10.741	6½	18 6½
Roof: Concrete covered with copper on stramit and asphalt on Vermiculite, timber covered with copper on stramit .. .. .	11,130	19.189	1 0½	33 1½
Windows: Artificial stone surround, metal and wood windows with stained glass and leaded lights .. .. .	6,302	10.866	7	18 9
Facing materials: Brick, artificial stone, rendered concrete carved stone figure, concrete facing slabs .. .. .	3,227	5.564	3½	9 7½
Bellcote .. .. .	988	1.704	1½	2 11½
<i>Finishes</i>				
Ceilings: Lime plaster, fibrous plaster, emulsified asbestos spray and plywood .. .. .	1,558	2.686	1½	4 7½
Doors: Doors and screens Sapele and softwood, plate glass glazing .. .. .	1,801	3.105	2	5 4½
Walls: Lime plaster, white cement plain faced acid treated tooled concrete columns with painted margins and facings .. .. .	1,234	2.128	1½	3 8½
Floors: Composition, cork tile, terrazzo tiles, artificial stone, gurjun wood block, softwood and hardwood skirtings .. .. .	1,194	3.438	2½	5 11½
<i>Fittings</i>				
Cupboards and peg rails and capping .. .. .	434	0.748	½	1 3½
Gallery front, steppings .. .. .	300	0.518	½	10½
Ecclesiastical fittings .. .. .	4,053	6.988	4½	12 0½
Stairs .. .. .	495	0.855	½	1 5½
<i>Installations</i>				
Heating .. .. .	3,175	5.474	3½	9 5½
Sanitary plumbing .. .. .	235	0.405	½	8½
Electrical services .. .. .	1,990	3.448	2½	5 11½
Drainage .. .. .	1,010	1.741	1	3 0
<i>Siteworks</i>				
Paths, planting, roads, etc. .. .. .	2,544	4.386	2½	7 6½
Covered way .. .. .	1,015	1.750	1	3 0½
<b>Total cost .. .. .</b>	<b>£58,000</b>			
<b>Total cost per ft super .. .. .</b>	<b>£8 12 7½</b>			
<b>Total cost per ft cube .. .. .</b>	<b>5 4</b>			

1. The high altar, 2. A screen between the nave and baptistry incorporates a fretted panel of the Madonna and Child. 3. The font

Artists: West End Crucifix and Font: BRIAN ASQUITH. Stained Glass in Sanctuary and Leaded Lights in Nave: KEITH NEW. Image of Madonna and Child in Nave and Hanging Rood over High Altar: JOHN HAYWARD. Glass and Concrete Blocks in Side Chapel: R. D. KING and R. A. SULLOCK

General Contractors: FALKUS BROS. LTD.

Sub-contractors and suppliers:

Asbestos Spray: William Kenyon & Sons. Asphalt Roofing: Faldo Asphalt Ltd. Bell and Ringing Equipment: Mears & Stainbank. Candlesticks, Sanctuary Furniture, Decoration of Ciborium: Faith Craft-Works. Carpentry and Joinery, including Chancel Rails, Ciborium and Fretted Panels: Morgan & Partners Ltd. Copper Roofing: Holloway Metal Roofs Ltd. Electric Work: Giffens Ltd. Facing Bricks: Richard Parton Ltd. Floors: Stevens & Adams Ltd. Light Fittings: F. H. Pride Ltd. Ironmongery: Yannedis & Co. Ltd. Heating: Wontner-Smith Gray & Co. Ltd. Metal Windows: Aygee Ltd. Organ and Execution of Casing: J. W. Walker & Sons Ltd. Pre-cast Stone Surrounds: J. A. King & Co. Ltd. Sanitary Goods: John Bolding & Sons Ltd. Sanctuary Floors: Dolben Tiles Ltd. Spiral Staircase and Suspended Ceiling: David Esdaile.

## METHODIST CHURCH AT MITCHAM <sup>53</sup>

Architects: EDWARD D. MILLS and PARTNERS

Assistant Architect in Charge: RACHEL MOULTON MONK

Quantity Surveyors: LESLIE W. CLARK and PARTNERS

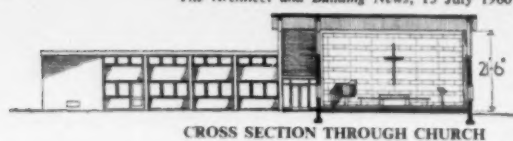
Engineers: OVE ARUP and PARTNERS

*Special care has been taken to preserve a number of fine trees on the site of this new church. The unusual roof silhouette together with these trees and a simple cross make a dramatic composition at sunset*

Photos: HENK SNOEK and EDWARD MILLS



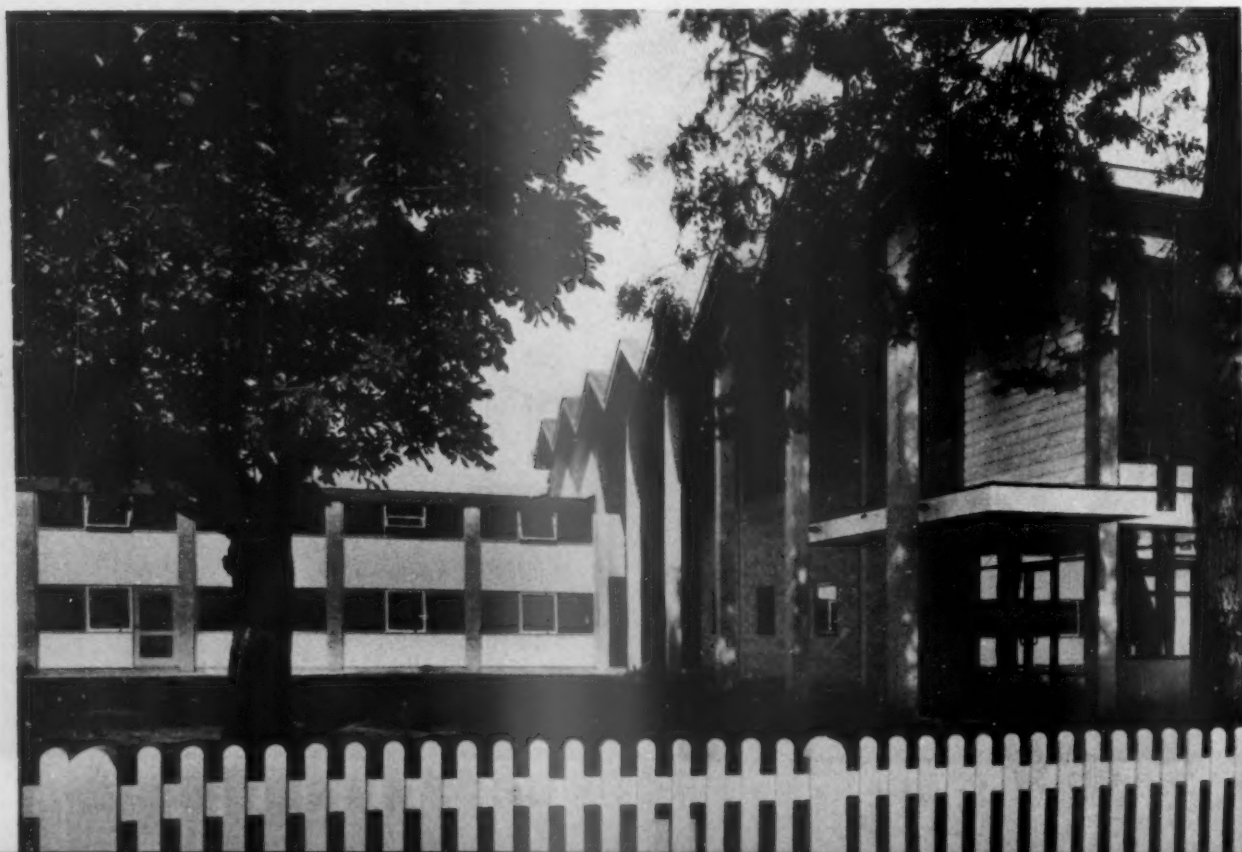
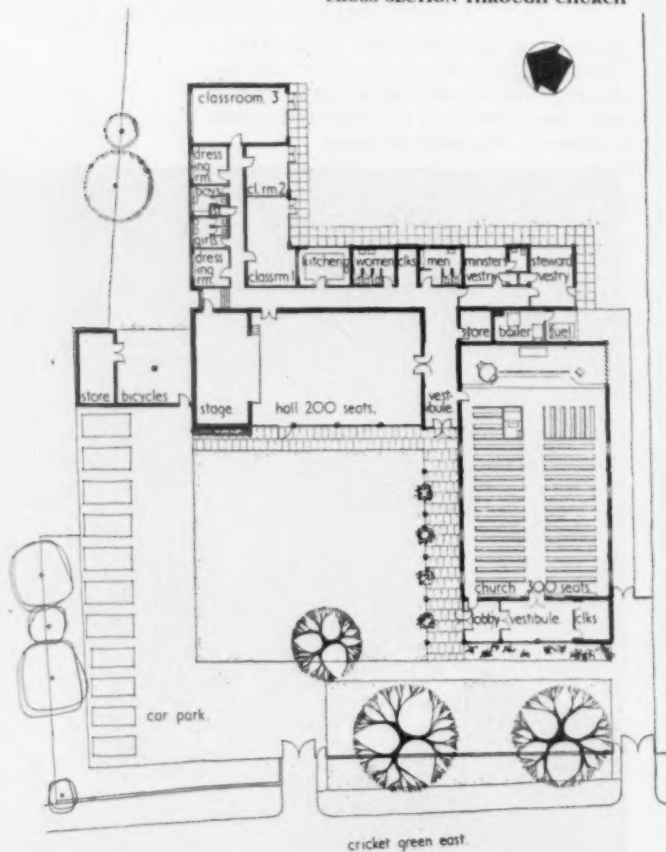


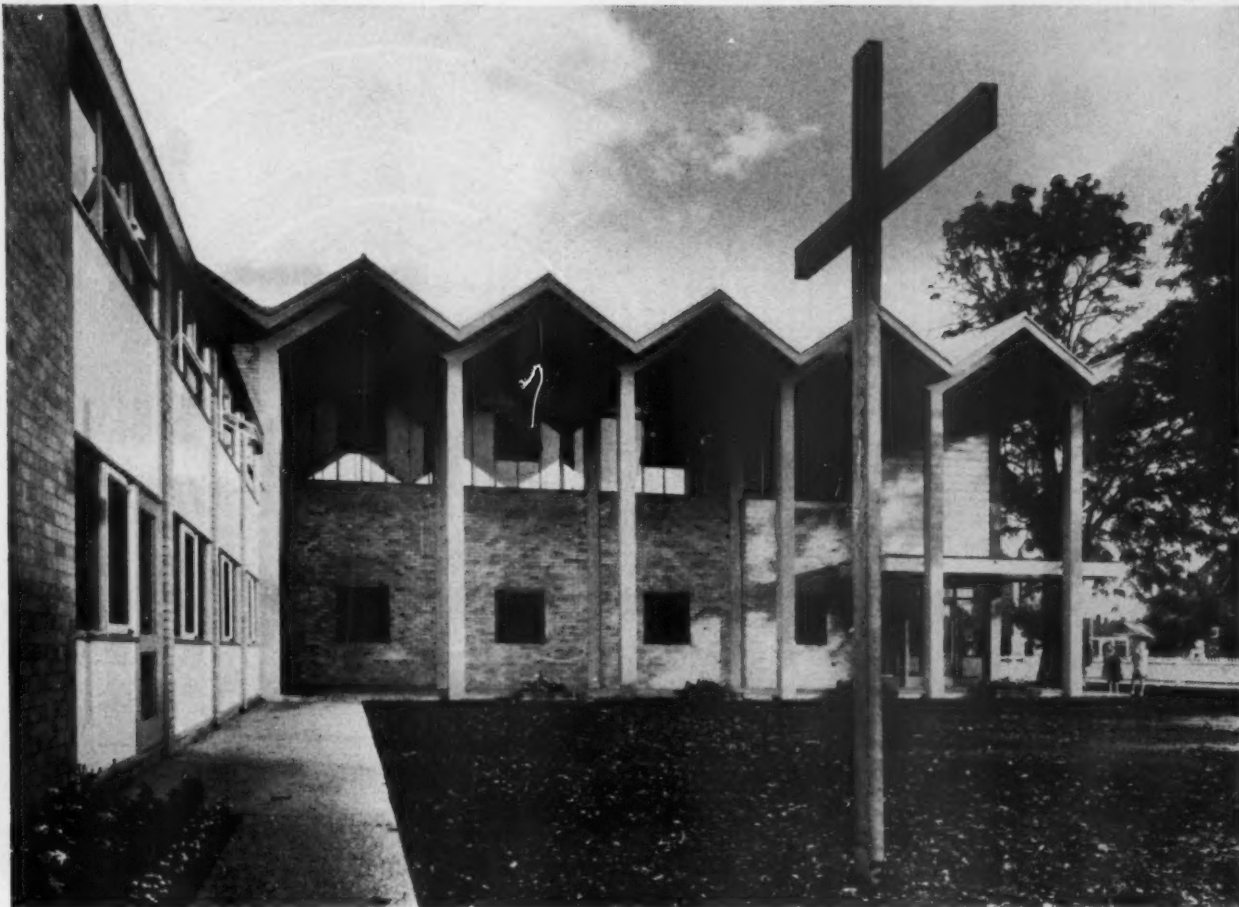


IT was originally intended that the building should be erected on the site of the original Methodist Church which was demolished as a result of enemy action and was situated adjoining the Mitcham Fair Green. The Trustees, however, received an offer for the site and finally decided to sell it in order to purchase a new site on the Mitcham Cricket Green, approximately half a mile away, which would give greater opportunities for rebuilding as they already owned and used a 19th century chapel adjoining the new property. The new site is considerably larger than the old one and provides parking space for 16 cars, in the car park constructed on the site of the old chapel which was demolished in May last year.

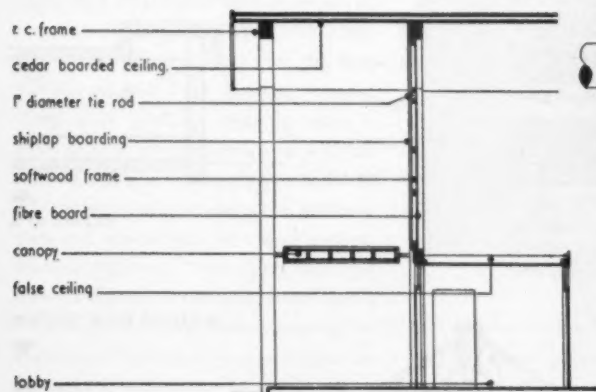
#### Planning

The new buildings include a church with seating accommodation for 300 people and a church hall to seat approximately 200, with a stage, three large classrooms, two dressing rooms, two vestries and separate lavatory accommodation for adults and children. Two of the classrooms can be made into one room by means of folding doors and adjoining the kitchen which has a service counter so that it can be used as a

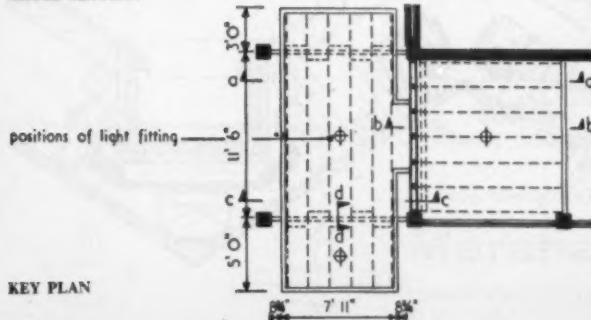




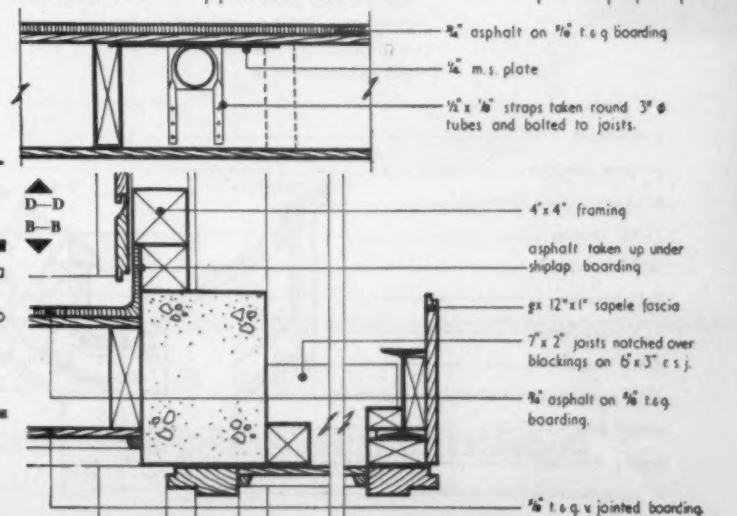
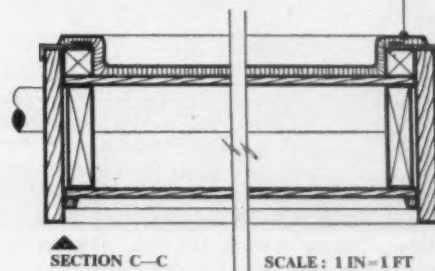
Two main elements form the plan: a church to seat 300, and church hall for approximately 200 (see photos above and facing page). These two elements have been planned with separate access from a covered way to give adaptability for the needs of an active church

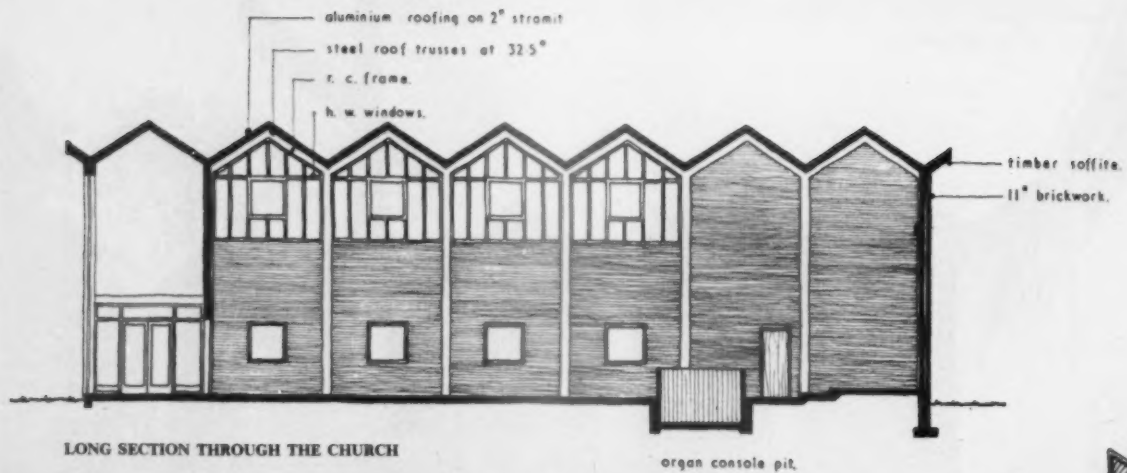


CROSS SECTION

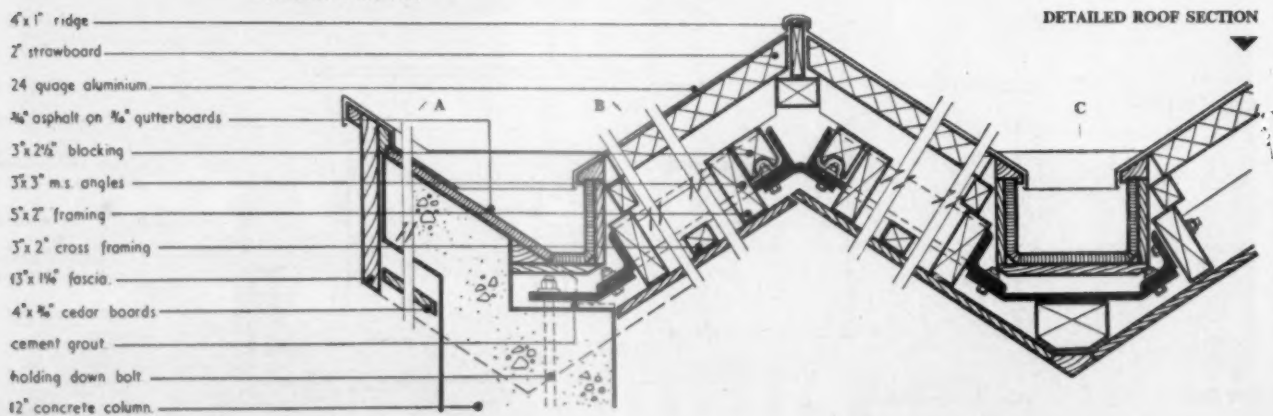
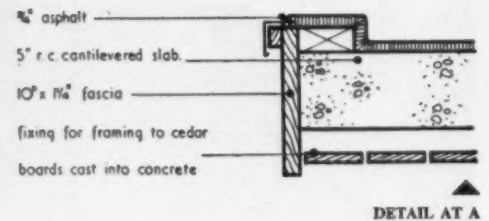
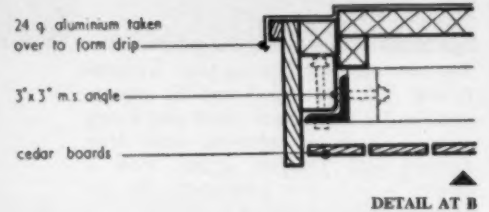
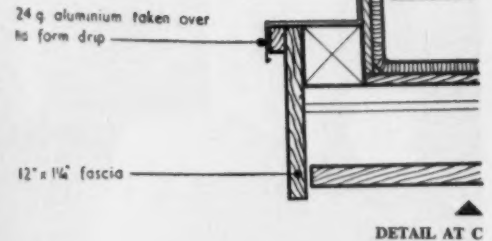


3" diameter m.s. tube cast into concrete column  
asphalt dressed over zinc flashing





Above, looking towards the altar and, facing page, the church seen from the communion rail. Natural materials have been used as far as possible to reduce maintenance, colours being chosen to give a lively and attractive interior







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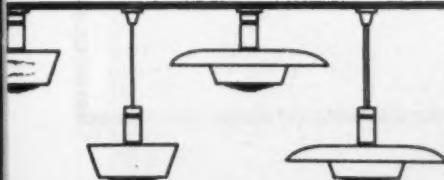


A comprehensive leaflet giving full data and prices is available on request.

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## COST ANALYSIS OF CONTRACT PRICES

Tender date .. .. .	June 30, 1958
Work started date .. .. .	August 2, 1958
Work completed date .. .. .	July 25, 1959
Reduced amount of contract .. .. .	£38,568
Highest tender price .. .. .	£46,556
Lowest tender price (accepted) .. .. .	£43,767
Superficial area of buildings .. .. .	9,370 sq. ft
Cube of buildings .. .. .	210,320 cu. ft

	Total £	%	Per F.C. s. d.	Per F.S. s. d.
<b>Foundations</b>				
Normal strip foundations and concrete column bases .. .. .	1,961	5.08	2½	4 2½
<b>Structure and cladding</b>				
Floors: Concrete ground floor slab .. .. .	737	1.94	¾	1 6½
Walls and partitions: In brickwork and concrete frame to church .. .. .	5,812	15.07	6½	12 5
Roof: Steel trusses, aluminium covered to church, remainder timber flat, asphalt covered .. .. .	7,618	19.73	8½	16 3
Windows: Hardwood to church, remainder softwood .. .. .	2,425	6.29	2½	5 2
Facing materials: Facing bricks .. .. .	796	2.06	1	1 8½
<b>Finishes</b>				
Ceilings: Cedar boarding to church, remainder fibreboard .. .. .	1,587	4.11	1½	3 4½
Doors: Hardwood to church, remainder softwood flush .. .. .	1,569	4.07	1½	3 4½
Walls: Brick and stone facings to church, remainder plaster .. .. .	1,788	4.64	2	3 9½
Floors: Hardwood block to church and hall; remainder thermoplastic tile .. .. .	2,552	6.62	3	5 5½
<b>Fittings</b>				
Church fittings, including pews, and pulpit, etc. .. .. .	2,266	5.87	2½	4 10
Cupboards and kitchen fittings .. .. .	190	0.49	¼	5
<b>Installations</b>				
Heating: Hot air .. .. .	2,526	6.55	3	5 4½
Lighting: including fittings .. .. .	1,577	4.09	1½	3 4½
Plumbing: including W.C. partitions .. .. .	1,100	2.86	1½	2 4
Gas: including water heaters .. .. .	441	1.14	½	11½
Drainage .. .. .	960	2.49	1	2 0½
External works: including car park, paths and fencing .. .. .	2,663	6.90	3	5 8½

Total cost .. .. .	Not available
Total cost per ft super .. .. .	82/4 (on reduced contract)
Total cost per ft cube .. .. .	3/8 (on reduced contract)
Costs based upon the reduced amount of contract	

Continued from page 54

youth club canteen. Other accommodation includes a cycle store and a store for garden tools, the vestibule to the church with cloakrooms, and boiler house and stores. The site is sufficiently large to allow for gardens in front and behind the building. Two main units of the building have been planned with separate access from a covered way on the north west side of the church so that it can be run with the minimum of maintenance and provide adaptable accommodation to meet the needs of an active church with a variety of organizations catering for all age groups.

## Construction

The construction of the church unit consists of a reinforced concrete frame with brick in-fill walls, hardwood windows and a folded slab roof. The classroom and hall unit is constructed with load bearing brick walls and timber flat roofs with wood-wool slab covering, finished with asphalt. Ceilings to this section are acoustic tiles and the ceiling to the church is of narrow strips of timber finished in a natural colour. Classrooms, etc., have painted softwood windows. Floors to the hall and church are in hardwood, the remainder being thermoplastic tiles. All interior walls are plastered except the interior of the church which is fair-faced brickwork, apart from the chancel wall where riven york stone is employed. Flush doors are used throughout and specially designed fittings and furnishings are employed in the church. Special attention has been given to the use of natural materials inside the building as far as possible to reduce the maintenance, and colours are carefully chosen to give a lively and attractive interior.

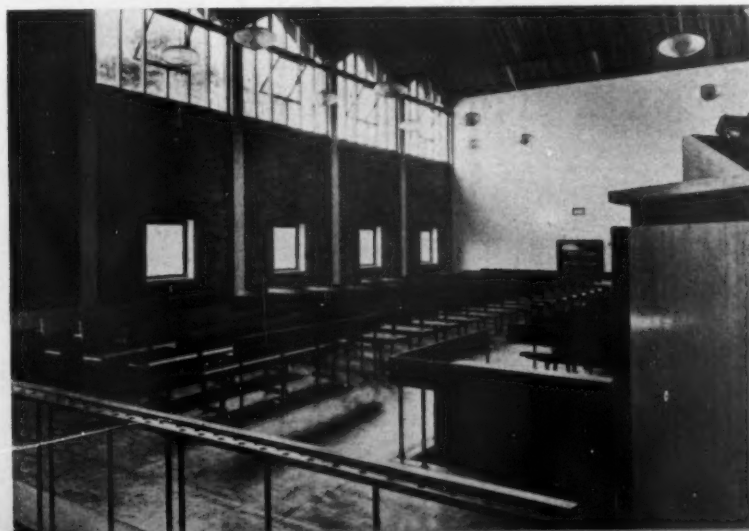
## Landscaping

Special care has been taken in relation to the landscaping of the scheme, and a number of fine trees on the Cricket Green frontage have been preserved. The arrangement of the building will allow many parts of the new premises to be opened up to the gardens so that in fine weather youth groups, etc., can take place out of doors.

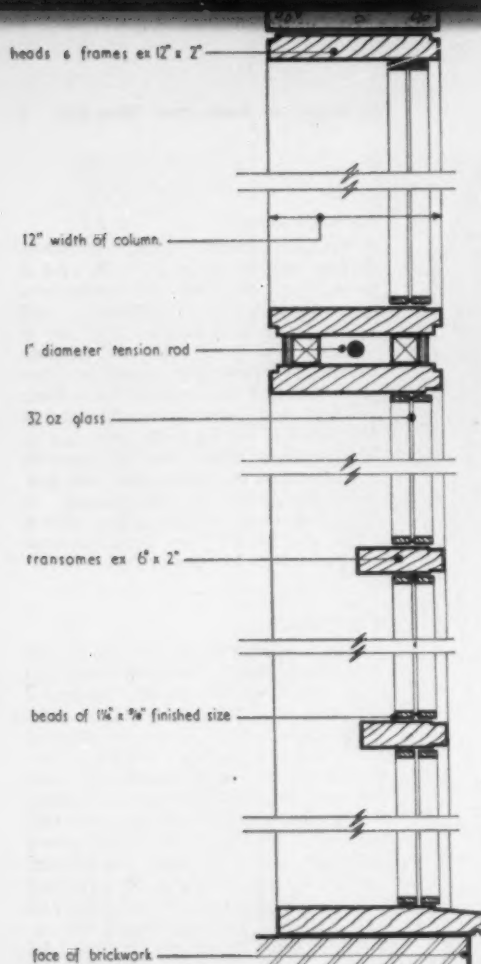
General Contractors:  
**JAMES LONGLEY AND COMPANY LTD.**

Sub-contractors and suppliers:

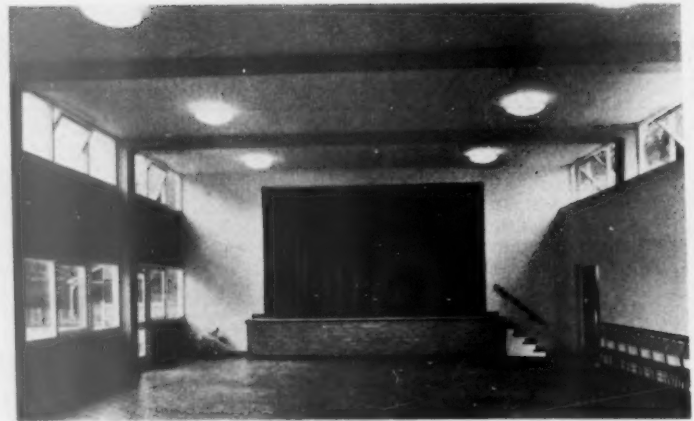
Asbestos Cement Panel: The Universal Asbestos Cement Manufacturing Co. Ltd. Bricks: London Brick Company; Sussex & Dorking United Brick Companies Limited. Doors: Thames Plywood Manufacturers Ltd.; John Sudd & Sons Ltd.; Esavian Ltd. Electrical: Service Electric Company Ltd. Flooring: The Marley Tile Company Ltd.; Bennetts Wood Flooring (Tungit) Ltd. Heating: Advanced Heating & Air Conditioning Ltd. Ironmongery: A. J. Binns Ltd. (Dryad Architectural Ironmongery). Light Fittings: Rotaflex; Merchant Adventurers; Frederick Thomas; A.E.I. Organ: John Compton Organ Company Ltd. Paint: Hadfields (Merton) Ltd. Roller Shutters: Shutter Contractors Ltd. Roof Lights: William J. Cox Ltd. Roofing: Permanite Ltd.; Broderick Insulated Structures Ltd. Sanitary Fittings: Stitsons Sanitary Fittings Ltd. Structural Steel: R. O. Wright & Company Ltd. W.C. Partitions: William Mallinson & Sons Ltd. York Stone: S. Marshall & Sons Ltd.





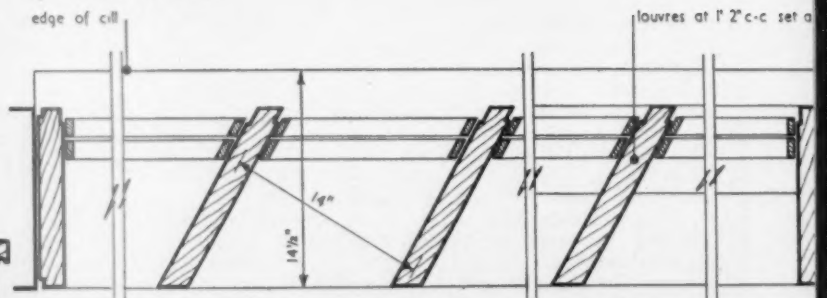


DETAIL OF SIDE WINDOW TO ALTAR  
SCALE: 1 IN = 1 FT



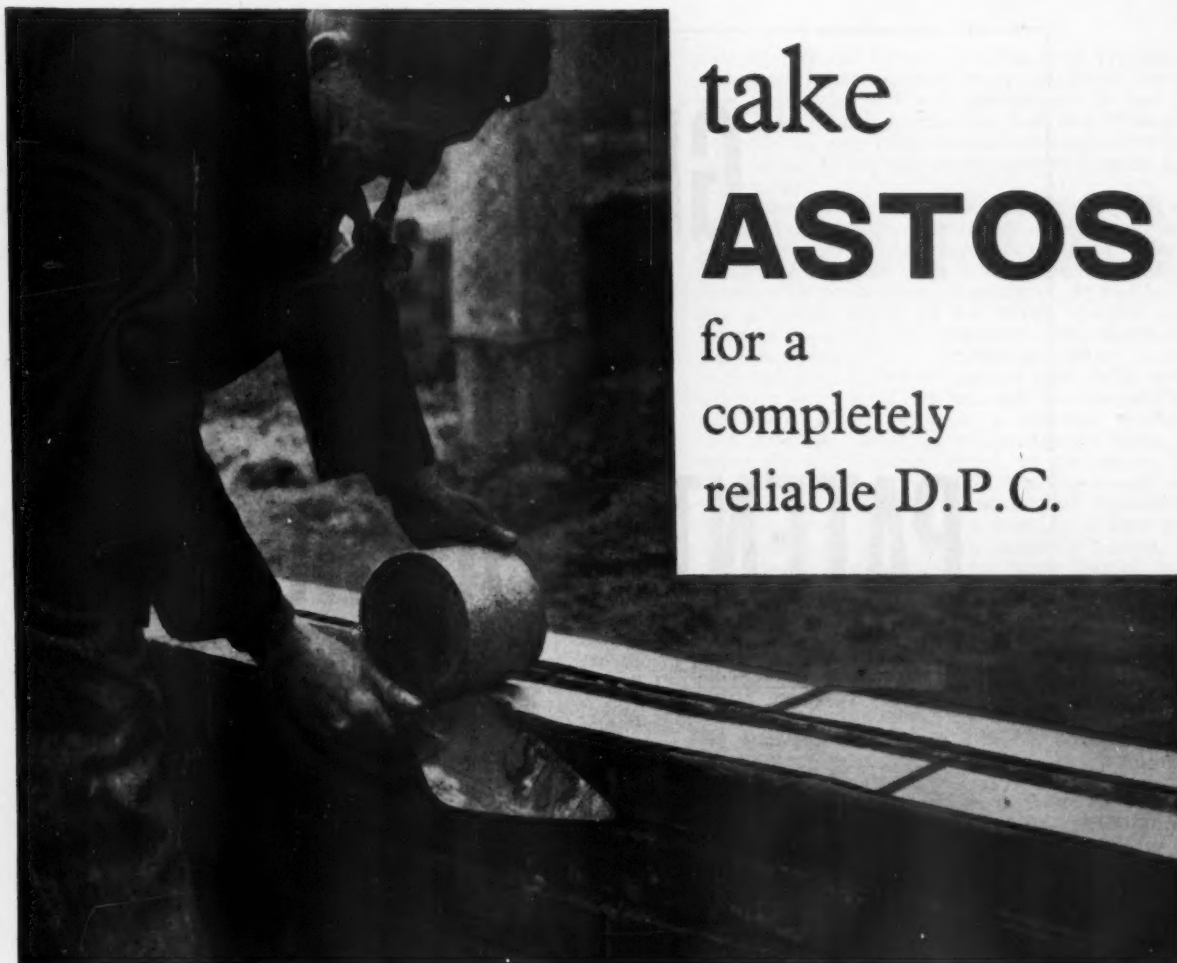
## METHODIST CHURCH

SECTION ▼ PLAN



Below, a close-up of the altar. The side window is detailed above. Top, the church hall. Heating is by means of hot air run in floor ducts and is capable of being used in any part of the premises individually according to the activities in progress





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## Advanced Structural Design

by C. S. Benson. B. T. Batsford Ltd. 50s.

**E**XPECTATION followed by disappointment very frequently leads to slight antagonism. It is in this position that the reviewer finds himself when considering the book under review. The book purports to have something useful to convey to "structural engineers, civil engineers . . . and engineering graduates". The reviewer would be more inclined to suggest only the latter as a potentially interested audience or alternatively substitute "Elementary" for "Advanced" in the title.

Essentially the book consists of seventeen chapters, each chapter being self-contained and discussing a particular piece of structure—say a coal bunker. The examples chosen are of both steel and reinforced concrete and cover a reasonably varied range of structures. A certain minimum of analysis creeps in in order to establish what forces may be considered acting and the remainder of the discussion—which is the bulk of the book—considers design of individual members or panels.

Taking the title and the preface as the guide to what the book might be expected to contain, the reviewer had thought (wrongly it would seem) that "Advanced Structural Design" would involve in some measure "Advanced Structures". Thus, in the book no mention can be found of design for ultimate load conditions in members, or pre-stressing considerations, or indeed of a number of other by now established, safe and economical design procedures. In short, the reviewer questions the use of the term "Advanced" to describe anything contained in this book.

To the graduate (or undergraduate) the book may well be of value and the reviewer does not intend to discourage this group of readers. The professionally interested, however, who may be attracted by the title, will find this book barren ground.

P. G. LOWE.

## American Building Art; The Nineteenth Century

by Carl W. Condit. Oxford University Press (New York). 87s 6d.

**T**HE Frontier surmounted, the Railroad became a leading cause and symbol of nineteenth-century America's rumbustious progress. It was certainly a leading factor in that country's somewhat individual development of constructional technique. Less evident, after a few Greek Revival beginnings, was its importance for the more "aesthetic" aspects of architecture. All this, and much more, is clear from Professor Condit's excellent, magnificently illustrated book, a pioneer work in the study of structural forms and techniques in the United States.

The author starts by explaining how in early colonial times the structural devices employed in America were essentially those of Europe's late Middle Ages; exterior weatherboarding, however, he claims as an essentially transatlantic invention. Colonial and early Federal builders in the main adapted well-tried European techniques (that of the covered bridge, for example) to American conditions, while the vast available supplies of timber long made for the wooden construction of buildings like cotton mills which in England would have been built of brick or stone. Despite the increasing use in America of such devices as iron supporting frames and cast-iron walls the generality of American builders, pragmatic in their approach to their work, tended to reject both traditional forms and the theoretical study of such matters as structural technique or the qualities of metals. The result was that building operations, even in so obviously go-ahead a country, long remained primitive and unprogressive by comparison with Britain or the Continent. Vast expansion, in bridges, trainsheds, and other buildings, was called for by the growth of the United States' railroad network, but as the properties of iron, and of early steelwork, had not been properly studied many disasters and increasing train loads often caused the swift replacement of gawky yet interesting truss bridges whose nature and development is fully handled in this book. Masonry viaducts, by way of con-

trast, have tended both to look far more pleasant and to wear much better; some of the comparatively few to have been constructed are still triumphantly in use. In the wider fields of architecture one finds that Chicago had a tendency, as with metal-framed skyscrapers, to be some years ahead of the rest of the country in each aspect of development.

Professor Condit deals very faithfully with each category of his wide subject—with timber and iron trusses, with suspension bridges (where America tended to lead other countries), with iron arch bridges, with train sheds and, finally, with construction in concrete. In this last section one is greatly struck by the wholly modern grace and amazing beauty of von Emperger's little footbridge over the Housatonic river at Stockbridge, Mass.; it goes back as far as 1895 but we in England have really seen hardly anything like it until this year with the completion of the new Garret Hostel Bridge in a somewhat similar setting in Cambridge. Buildings of load-bearing stone or brick being outside the author's scope, we get little on the more "artistic" aspects of American building except in an all-too-brief last chapter of "Architectural Appraisal". The "aesthetic" side of American building is here shown to have run parallel to various trends in Europe, the first non-derivative American work being that of Adler and Sullivan in Chicago. The great dilemma, still very far from being solved, lay in the problems of giving "stylistic" or "architectural" character to buildings whose main nature was expressed in their structural outline. The Chicago architects of the 1890's were those who best reconciled "structural integrity" and "aesthetic expression"; it is thus a pity that no work by Adler or Sullivan is fully illustrated by Professor Condit. Among his other and numerous pictures it is most interesting to see laid bare the internal steel framework (by Eiffel's firm) of the Statue of Liberty, while it is intriguing to know from the text that the authoress of "Uncle Tom's Cabin" settled down, in the serene post-bellum days, to the written advocacy of "open planning".

BRYAN LITTLE.

## The Law Relating to Caravans

by R. J. Roddis. Shaw & Sons. 30s.

**T**HIS book must represent one of the most singular strokes of bad luck which an author and publisher have ever experienced. The publishers rightly say that "As the number of caravans in use in Britain is increasing at the rate of about 25,000 a year it is felt that there is a necessity for the complex law relating to caravans to be simply explained so that all concerned may properly exercise their duties, rights and responsibilities".

The author has made a notable attempt to achieve this aim. His misfortune is that within a few days of publication of this book the Government presented the *Caravan Sites and Control of Development Bill* which is now passing through the House of Commons. It is difficult to say in detail how the Bill may look when it reaches the Statute Book; but it is quite clear what its general form will be.

It is, therefore, possible to say that the new Bill renders completely obsolete nearly three-quarters of this book, and may well affect much of what is stated in most of the rest of the text. By this misfortune of timing the book is rendered largely valueless. Everyone is likely to sympathize with both author and publisher, who correctly assessed the need for a book of this kind, that their efforts should so come to grief.

F. H. B. L.

## Books Received

*Concrete Formwork Designer's Handbook*, by H. R. Gill. Published by Concrete Publications Limited. Price 15s.

*Brickwork for Apprentices*, by J. C. Hodge. Published by Edward Arnold (Publishers) Ltd. Price 15s.

*Sand and Gravel Handbook*. Published by the Sand and Gravel Association of Great Britain. Price £1.

● Mr. S. V. Mercer, President, Federation of Master Builders, Midland Region, was chairman at a symposium on Structural Fire Protection held at the Queen's Hotel, Birmingham on June 23. Speakers at the symposium, organized by Turners Asbestos Cement Co. Ltd., were S. D. Studd (Director of Works, Manchester Corporation), Eric L. Bird (Building Centre, London) and L. A. Ashton (Fire Research Station, Boreham Wood).

● Esso Petroleum Co. Ltd. have made a gift of £50,000 to the Southampton University Centenary Appeal Fund. This follows a number of other donations to education made by the company, including over £80,000 to St. Catherine's College, Oxford, £35,000 to Churchill College, Cambridge and £13,000 to Manchester College of Science.

● Aygee Ltd. have transferred the whole of their metal window and curtain walling division to a new and larger factory at Century Works, Havelock Road, Southall, Middlesex (telephone: SOUthall 6441). The head office and glass division remain at Century House, 100 Westminster Bridge Road, London, S.E.1.

● Speedyheat Ltd. of 44 Tower Hill, London, E.C.3, manufacturers of space heating and air circulating units, have widened their interests. They are now the London office of Burgess & Company (Engineers) Ltd., makers of the Burgess Boiler, and also authorized agents for the Bekon range of pressed steel radiators.

● Mr. J. E. Lennard has been appointed general sales manager of Richard Hill Ltd. of Middlesbrough. He will be based for the present at Byron House, 7-9 St. James's Street, London, S.W.1 (telephone: WHIttehall 5772).

● Mr. C. W. Taylor has been appointed assistant to Mr. G. Harries the company secretary and group chief accountant of the Firth Cleveland Group.

● Mr. T. H. B. Whiting has taken up the new post of London Director for the Aveling-Barford Group of Companies, operating from Morris House, Jermyn Street, London, S.W.1. Mr. O. A. Singleton has been appointed London & Home Counties Manager for Aveling-Barford Ltd., in succession to Mr. C. G. Miller who has retired. Mr. J. D. Clark takes over Mr. Singleton's former position as group area sales manager for Lancashire, Cheshire and North Wales. Other appointments within the group include those of Mr. W. E. Harrison as sales representative for Aveling-Barford in the Tyne-Tees area and Mr. V. D. G. Short as West Midlands and Central and South Wales representative for Goodwin Barsby & Co. Ltd.

● The Second International Compressed Air and Hydraulics Exhibition is to be held in the Empire Hall, Olympia, London, from April 30 to May

4, 1962. The organizers state that already more than 68 companies who exhibited at the 1960 event have taken an option on the same space for 1962.

● Heatrae Ltd. show a net profit for the year ended February 29, 1960, of £24,759, compared with the previous year's result of £15,156. A dividend of 22½ per cent, less tax, has been recommended on the ordinary shares.

● Richard Costain (Civil Engineering) Ltd. have been awarded a contract to construct the £500,000 Lamaload Dam for the Macclesfield Corporation. The mass concrete buttress type dam will be 600ft long, 160ft high and 150ft thick at its base, tapering at the top to 7ft. The site of the reservoir is in the valley of the river Dean; it will have a catchment area of 1,000 acres and a holding capacity of 430 million gallons. Work is expected to commence in July of this year and to be completed in 1963. Consulting engineers are Herbert Lapworth & Partners.

● British Plaster Board (Holdings) Ltd. show a group net profit for the year ended March 31, 1960, of £1,488,343, compared with the previous year's result of £1,431,146. A final ordinary dividend of 7½ per cent, less tax, has been recommended, making a total distribution for the year of 11½ per cent.

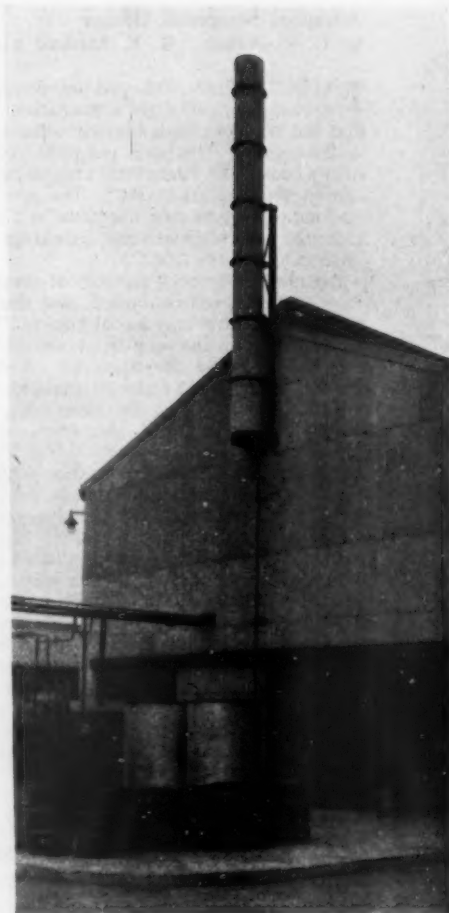
● Blackwood Hodge Ltd. show a group net profit for the year ended October 31, 1959, of £716,851, compared with the previous year's result of £697,732. An ordinary dividend of 6 per cent has been proposed.

● Mr. M. K. Gomme, formerly divisional manager of Electrolux Ltd., South East Division, has been appointed to the general sales manager's staff at the Company's Head Office. He is succeeded as South Eastern divisional manager by Mr. Alexander Preston. Mr. George W. Anderson has been appointed deputy manager to Mr. Preston.

● Mr. H. A. Holt and Mr. K. H. Brittain have respectively been appointed general manager and chief technical adviser of the development division of The Cement Marketing Co. Ltd. Mr. J. W. Whalley has been appointed general manager of the special products division and Mr. H. H. Marshall, general manager of the Whiting division.

● We regret to record the death on June 5 of Mr. C. J. Ady, a director of Hickson's Timber Impregnation Co. (G.B.) Ltd.

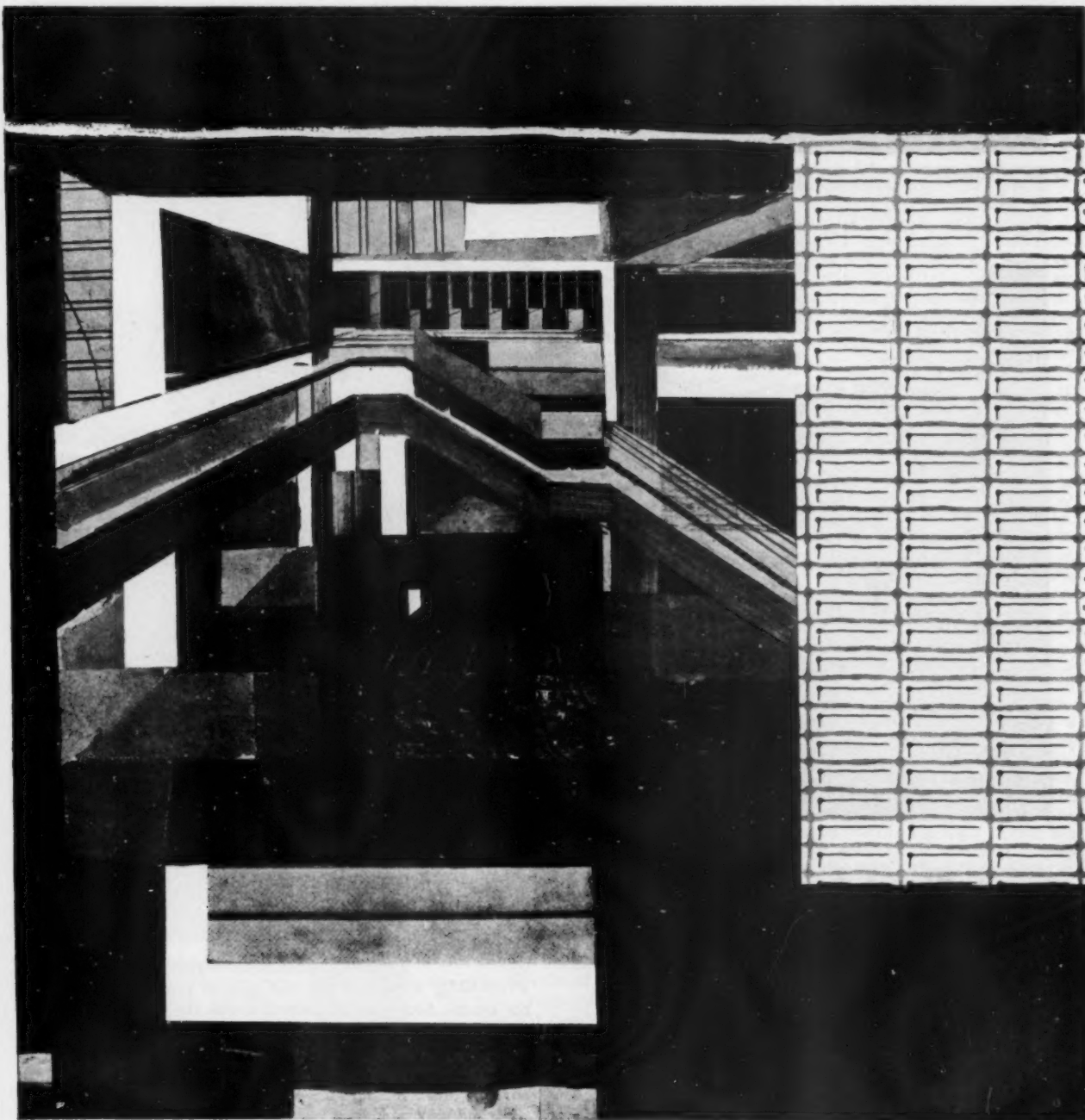
● Mr. F. Payne has retired after 51 years' service with the Blue Circle Group and has therefore resigned his directorships of The Cement Marketing Co. Ltd., Anchor China Clay Co. Ltd., Riddlesdown Lime Co. Ltd., South Wales Portland Cement & Lime Co. Ltd., Thurrock Chalk & Whiting Co. Ltd., and W. Marshall (Hessle) Ltd.



Manmil Plastics Ltd. made this 27ft high fume stack with a P.V.C. interior and an outer casing of polyester glass fibre

Stanley shaper files are sometimes used to fettle aluminium castings and have been found to last considerably longer than conventional files





*Drawing by John Drummond*

A Palladio Magnus wallpaper PANNUS, designed by Humphrey Spender, has been chosen as one of the Design Centre Awards for 1960

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## ELECTRIC FLOOR-WARMING

INFORMATION SHEET

2



*'The Orchard,' Bramcote, Notts.  
Designed by R. H. Eberlin, Dip. Arch., A.R.I.B.A.*

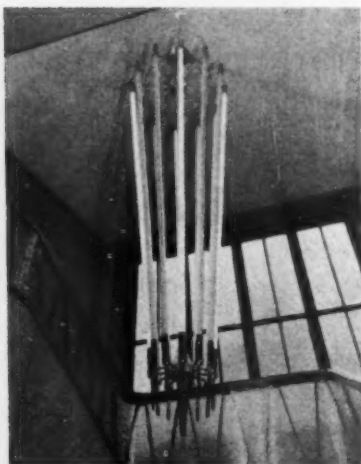
## Electric floor-warming in an architect's own house

'The Orchard' was designed by the architect for his own use. Wanting the most efficient system of space heating, he chose electric floor-warming, consisting of heating cables embedded in the floor screed. Thermostatically controlled, and using only 'off-peak' electricity, the system maintains a constant background warmth equivalent to 60°F in the living rooms, and 50° to 55°F in the bedrooms, on a total loading of 11.1kW. The total floor area in the house comprises 1,363 sq. ft., and the floor-warming is laid under three different types of floor finish—cork, linoleum, carpet and underfelt.

**Running costs** In the first year of operation, the electric floor-warming, together with the electric water heating (all the other services in the house are electrically operated too!) consumed 17,943 units, costing £56.1.5. Thus a family of four enjoyed all the advantages of complete home comfort and constant hot water, all year round, for just over a pound a week!

**Other advantages** With electric floor-warming, all the chores connected with conventional heating are eliminated. No stoking boilers, ordering or storing fuel. No ash removal. There is nothing to see, for no radiators or pipes mar the rooms. There is no dirt; nothing to stain walls or ceilings. The heat is evenly spread throughout the rooms, and causes no draughts. More than that, the installation costs are much less than other kinds of space heating installation.

**If you are planning new houses for comfort and efficient warmth, ask for details from your Electricity Board, or write for free booklet to the Electrical Development Association.**



*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer*

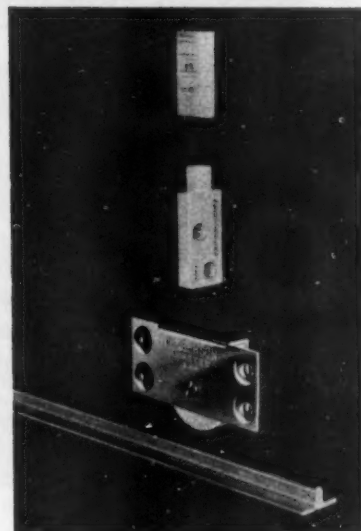
#### Fluorescent Tube Chandelier (A)

A chandelier light fitting, which uses eight opaque tubes arranged in a decorative pattern around four lighting tubes, has been installed in the office entrance of Chance Brothers Ltd., of Smethwick, Birmingham. The opaque tubes are of fire polished glass and produce an effect of shimmering movement as the light is reflected in them. The four tubes which light are of the Atlas fluorescent type, powered at 125W. Both the lighting tubes and the opaque tubes are 8ft in length and the fitting is made of brass, finished in silver plate and stove enamelled with polished copper on brass relief. The fitting was designed by S. M. Sternfeldt, L.R.I.B.A., in conjunction with J. W. Baseley, M.S.I.A.

*F. & C. Osler Ltd., Broad Street, Birmingham.*

*Readers' Information Service, Ref. A. Date 13/7/60.*

★



#### Sliding Door Gear (B)

A special flush face-fixing, the Loretto Bottom Roller No. 84, has been introduced for sliding cabinet doors. It will be available in addition to the existing invisibly mortised-in type Roller 83N which will continue to be included in the complete Loretto standard sets. The Roller has a cadmium plated one-piece steel body encasing a new pattern nylon wheel, with deeper treads for use with the recently introduced deep rails 80/80X. The rollers have a capacity of 60lb per pair and are suitable for a minimum door thickness of 1/2 in. The rollers are claimed to be impervious to kitchen condensation, marine atmosphere and tropical humidity. Price: 5s 9d per pair. The present Loretto fibre top guide, 113/81X, will be replaced by nylon guides of similar size and shape.

*P. C. Henderson Ltd., Harold Hill, Romford, Essex. Ingrebourne 41111.*

*Readers' Information Service, Ref. B. Date 13/7/60.*

★



#### New Gas Cooker (C)

The Monarch gas cooker has a new type of grill servery which combines high-level grilling facilities with a warming compartment. This innovation, together with a shelf below, provides room to plate up and keep six large plates of food hot. The hotplate and large oven are of new design and the oven burner can be lighted through a flash port. The hotplate hob is of an

anti-spill pattern and is capable of retaining spillages up to a maximum of 2pt within the hotplate. This can be quickly removed with a cloth. There are two glide-over pan supports which are reversible. The four boiling burners are rated at 12,000 B.Th.U/hr and are self-lighting from a central pilot. They are capable of relighting if accidentally extinguished. All taps are of the safety type. The grill and warming burners are controlled by a duplex tap at the top right-hand side of the backplate and the grill is rated at 14,000 B.Th.U/hr, the warming burner being rated at 1,100 B.Th.U/hr. The oven burner is rated at 10,500 B.Th.U/hr, and is lighted at the back of the oven through a flash port at the front. The oven linings are vitreous enamelled and are embossed to support the two chromium plated grid shelves. The oven door is of the drop-down type and seals into a stainless steel spring strip fitted around the front edge of the oven. Automatic temperature control is provided through a Mainstat rod-type thermostat, which has a setting knob situated on the fascia immediately above the oven door. The flue outlet is at the front of the backplate so that the cooker can be mounted flush to the wall. There is a storage drawer for cooking utensils below the oven. Overall dimensions: 57 1/2 in high by 23 1/2 in wide by 23 1/2 in deep; hotplate is 34 in above floor level. Hotplate hob measurements: 21 1/2 in wide by 19 in deep. Oven internal dimensions: 18 in wide by 16 in high by 15 1/2 in deep. Finish: white or cream high-gloss vitreous enamel. Burner and oven taps are mounted on a recessed fascia, the burner top fans being chromium plated plastic and the oven tap red plastic. Oven door and storage drawer handles are of polished aluminium with copper-gold trims and the fascia behind the burner taps is in copper-gold finish. The servery door handle is chromium plated.

*R. & A. Main Ltd., 48 Grosvenor Gardens, London, S.W.1. Sloane 6241.*

*Readers' Information Service, Ref. C. Date 13/7/60.*

★

#### Electrical Branding Iron

The Pyrobit electrically heated branding iron has been produced for the permanent marking of timber, leather and other commodities. Operating temperature is stated to be reached in 10 minutes and up to five 1 in letters or numerals can be fitted and easily and quickly interchanged. The tool consumes 500W and is suit-

Top: Chandelier (A)

Centre: Loretto Roller (B)

Bottom: Monarch Cooker (C)

able for 220/250V a.c. supply. It can, however, be fitted with an element for any other voltage. Weight 6lb. Price: £7 10s (including 5ft of three-core flex); letters and numerals, 2s 6d each.

*Acru Electric Tool Mfg. Co. Ltd.,  
Demmings Road, Councillor Lane,  
Cheadle, Cheshire. Gatley 6058.*

*Readers' Information Service,  
Ref. D. Date 13/7/60.*

★

## Modified Midget Hoist (E)

The Haltrac midget hoist (see New Products, A. & B.N., July 1, 1959) is now being made with an automatic locking device. The Autolock is simple to operate for when a load is pulled at an angle, the cord runs free and if released, the cord is instantly held between toothed nylon cams. A sideways pulls and the load will be freed again. The hoist is made of tempered aluminium, together with high tensile plated steel bolts, nuts and washers and uses eight nylon pulley wheels (giving an 8:1 reduction). It is supplied with 72ft of braided nylon cord. The equipment has been tested to a breaking strain of more than 1,000lb on a straight lift and is claimed to be capable of moving a car, trailer or caravan weighing up to 2½ton. It will give a lift of 9ft with the standard length of cord but lifts of up to 27ft can be obtained by using longer lengths of cord. Price: 87s 6d (57s 6d, without Autolock).

*Haltrac Ltd., Bourne Works,  
Weimar Street, London, S.W.15.*

*Readers' Information Service,  
Ref. E. Date 13/7/60.*

★

## Modified Dumper (F)

The Barford Type 75 one-ton dumper is now available with a new low-lip skip as an alternative to the standard skip. The new skip is designed to take discharge from a 5/3½ T mixer whilst both machines are standing on the same level. The lip of the new skip stands 2ft 6½in from ground level and it has a fluid capacity of 7½ cu ft approx. Slots are provided in the leading edges of the skip sides so that an anti-spillage plate can be dropped in position. These slots are designed so that they will accept ordinary builders' planking if necessary.

*Barfords of Belton., Ltd., Belton,  
Nr. Grantham, Lincs.*

*Readers' Information Service,  
Ref. F. Date 13/7/60.*

★

## Spark Resistant Tools (G)

This company has been appointed sole distributors in Great Britain for Ampco spark resistant tools, which are of American origin. There are over 400 tools in the range, some of which

are illustrated, and these are made either in Ampco metal, Beryllium-copper or Monel metal. Ampco metal is used for tools such as hammers, rakes, saws, shovels, brushes and chains. Beryllium-copper, which has exceptional hardness and tensile strength, is used for tools with cutting edges and gripping teeth, such as chisels, drills, knives, screw-drivers and pipe-wrenches. The tools made from Monel metal are for use where chemicals, which attack high copper base alloys, are present, such as acetylene and other liquid gases used for cutting and welding. Catalogues and price lists are available on request.

*Optoshield Ltd., 146 Clerkenwell  
Road, London, E.C.1. Terminus 2800.*

*Readers' Information Service,  
Ref. G. Date 13/7/60.*

★

## New Silicone Grease

A new silicone grease, M494, has been added to the Nobel Division's range of silicone products. It is claimed to be an efficient sealing agent for electrical equipment as well as a general agent for protecting surfaces against moisture. Typical applications include the protection of insulations from corona discharge; sealing and potting grease in electronic equipment; lubricant for electric cable prior to its being drawn through conduits, harness, etc.; release agent in moulding and casting operations; packing grease for glands and for impregnation of asbestos packings to prevent sticking of joints; glass stop-clock lubricant; lubricant for preventing sticking of screw threads (e.g. with outdoor electric fittings); and vacuum sealing grease.

*Imperial Chemical Industries Ltd.,  
Nobel Division, Silicones Department,  
Stevenston, Ayrshire.*

*Readers' Information Service,  
Ref. H. Date 13/7/60.*

★

## Mobile Crane

The new Rapier 1520 mobile crane has a full circle slewing superstructure and separate electric motors are fitted for hoisting, derricking, slewing and travel motions. These can be operated either separately or simultaneously. The crane is mounted on two axles with single tyres on the steered axle and twins on the driving axle. The 1520 will handle loads up to 8ton through all motions and props are provided for lifting, slewing and derricking with heavier loads up to 15ton. The superstructure is a welded steel frame built from sections and plates, with top facings machined to one level. It revolves on a single row of tapered rollers, alternate rollers having their axes crossed, thus the bearing takes both vertical and horizontal loads and eliminates the need for a centre post. Strut and canti-



Top: Midget Hoist (E)

Centre: Ampco Tools (G)

Bottom: Barford Dumper (F)







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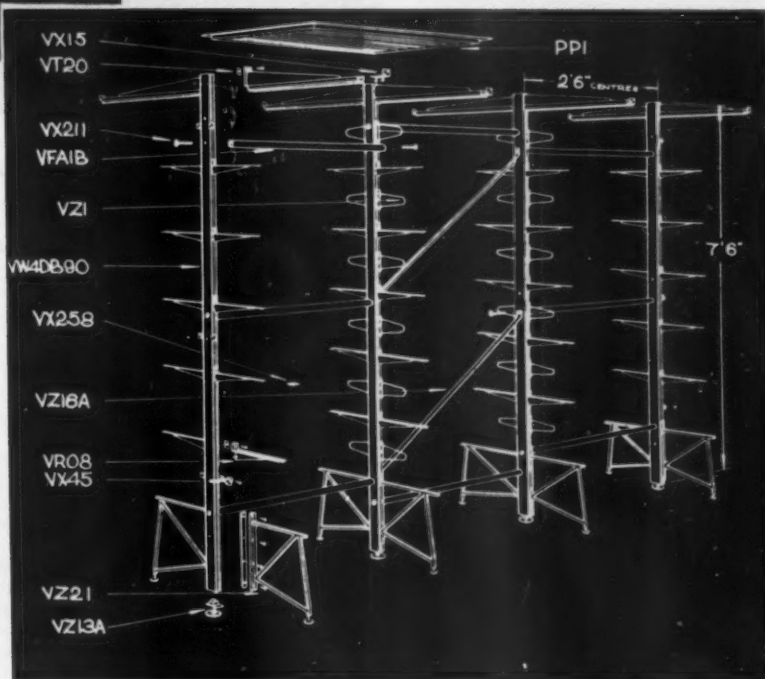


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**Compare the costs.** These are typical weekly costs, averaged over the year, for centrally heating a three-bedroomed house or bungalow—and hot water summer and winter. Look how much cheaper solid fuel is.

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COKE in independent boiler	9/- per cwt	9/9d	15/-
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GAS	1/4d therm plus, say, 2/8d a week standing charge	16/1d	23/6d
ELECTRICITY	1d unit (No standing charge included)	18/2d	29/10d
OIL	1/5½d gallon	12/10d	22/8d
* plus 2/- to 6/- a week maintenance cost.			

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lever jibs are available, the strut jib being pivoted in brackets in the superstructure frame. Jib extensions will increase the basic length of 30ft up to 80ft. Telescopic stops are supplied with strut jibs to limit inward over-derricking. Power unit: Perkins P6, 61 b.h.p. diesel engine. Hoist speeds on single line: 3½ton at 80ft/min, 3ton at 100ft/min, 2ton at 120ft/min, 1ton at 160ft/min. Derrick speed: full range in 18sec. Travel speeds: 7 m.p.h. unloaded on level ground and 3 m.p.h. with 8ton load on level ground. Slew speed: 3 r.p.m. Turning circle: 21ft 6in radius. Steering is power assisted and there are power-operated hydraulic brakes on all wheels.

*Ransomes & Rapier Ltd., Ipswich, Suffolk. Ipswich 56383.*

*Readers' Information Service, Ref. I. Date 13/7/60.*

★

## Packaged Air Conditioners (J)

The York Embassy room air conditioning units are free-standing self-contained models supplied for commercial use. The range consists of three models with refrigeration capacities of 3.3ton, 5.7ton and 8.3ton. In all cases operation is automatic once the equipment has been switched on and the desired temperature level selected. The units employ centrifugal type fan assemblies completely mounted on resilient rubber isolators. Fan motors are of the capacitor start type and the fan drive is through V-belt with adjustable motor pulley. Cooling systems are hermetically sealed Refrigerant gas-cooled motor compressor type, using Refrigerant 22. Removable air filters are fitted. Controls are through manual selector switch for start and stop control of cooling or operation of the fan only. They are mounted on a concealed panel with thermostat dial and high-pressure cut-out and overload protectors are provided. The cabinet is of heavy gauge steel, Bonderized and finished with grey baked enamel. Panels are removable for inspection and the casing is soundproofed with fibreglass insulation. Overall dimensions: Model 354: 35in wide by 23in deep by 82½in high. Model 554: 42in wide by 23in deep by 82½in high. Model 752: 46in wide by 27in deep by 93½in high.

*York Shipley Ltd., North Circular Road, London, N.W.2.*

*Readers' Information Service, Ref. J. Date 13/7/60.*

★

## Door Weather Bar (K)

The Trapper weather bar has no moving parts and gives sufficient clearance for a doormat to be placed

inside the door. It consists of a galvanized steel angle projecting below the door and when the door is closed, forms a seal against a galvanized steel lipped channel. The Trapper can be fitted to both inward and outward opening doors. The channel, which has hooded weep holes, is supplied oversize and should be cut to fit tightly between the door frames. The outer face should be positioned flush with the door, bedded in mastic and fixed with screws into plugged holes. The angle is cut to suit the width of the door and positioned so that the lower flange touches the beaded lip of the channel. This provides a seal which is claimed to be wind-tight, whichever way the door opens and capable of preventing the rain from being blown beneath the door. If the door drops after fitting, the flange of the angle can be adjusted. It can be supplied for any size of door. Price: 18s 6d per set (including angle and channel with screws and fixing instructions) for doors up to 36in.

*Douglas Aitken (Metal Works) Ltd., 176, Hope Street, Glasgow, C.2. Douglas 0404.*

*Readers' Information Service, Ref. K. Date 13/7/60.*

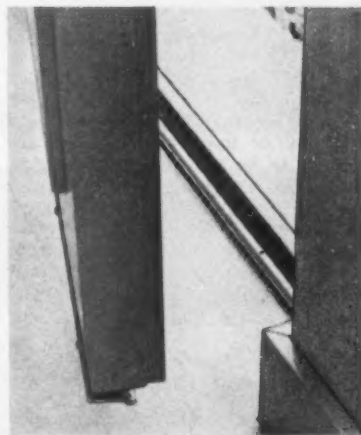
★

## Diesel Pump (L)

The Model 2D2 2in high-capacity portable diesel-driven pump has been added to the Goodenough range. It has a maximum rated output of 10,500 Imp.Gal/hr and the maximum total head is 88ft. It is capable of delivering 3,000, 8,300 and 10,000 i.g.p.h. at respective total heads of 80ft, 50ft and 30 ft. Many types of liquid from clear water to liquid mud and sludge, slurries, screened sewage, light fuel and lubricating oils, petrol and mild chemicals can be handled by the pump. It has an approximate delivery of 3,000 g.p.h. at 35 p.s.i. and is also suitable for light spraying duties. The new pump is self cleaning and is of the automatic self-priming type, without priming levers or valves. The pump chamber is fitted with renewable wearing plates and the open trash type impeller is screwed to the engine stub shaft. The pump seal is a dual-faced oil-immersed unit situated outside the pumping chamber so as to be out of contact with abrasive liquids being pumped. The engine is an Enfield Model 350 air-cooled, single-cylinder diesel, developing 4.5 b.h.p. at 3,000 r.p.m. There is a large capacity fuel tank and it is claimed that the pump will operate quickly and efficiently at both snore and full bore. The pump is mounted, as standard, on a steel trolley with two rubber-tyred wheels but it is also available on other types of mountings.

*Goodenough Pumps Ltd., 112 Jermyn Street, London, S.W.1. Trafalgar 2663.*

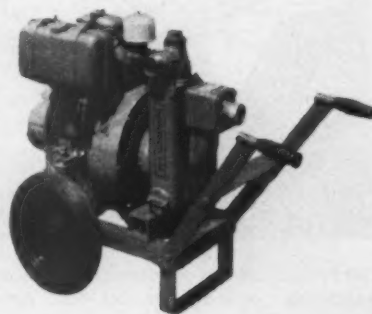
*Readers' Information Service, Ref. L. Date 13/7/60.*



Top: Trapper bar (K)

Centre: Embassy unit (J)

Below: 2D2 pump (L)





**Plastics Wastes**

Plastics waste fittings have been added to the Everine range of products. They are made in four styles, all available as double slotted lavatory waste, sink waste, bath waste and sink or basin waste. They are claimed to be resistant to most acids, easy to fit and cannot damage equipment to which they are fitted. They are complete with polythene plug, rubber sealing washer and brass back nut. Finish: black or white with plugs to match.

Evered & Co. Ltd., Smethwick 40, Staffs.

Readers' Information Service, Ref. M. Date 13/7/60.

★

**Hydraulic Loader**

Three new models have been added to the Muir-Hill range of hydraulic loaders. The machines share a number of advanced design features, including 50 degrees roll-back bucket action combined with a pry-out force of 7,400lb for faster operation, bigger loads and reduced wear and tear. The first of these, the FD2 loader, has front-wheel drive and is suitable for down-hill loading and for working in loose material such as sand. FD4 (illustration) has four-wheel drive and can overcome much more adverse ground conditions, in fact it is arranged so that the drive of the rear wheels can be disconnected if needed. The third unit, the RD2, is a general purpose loader. All machines are powered by Fordson Power Major 3.6 litres 4-cylinder diesel engines which develop a maximum of 56 b.h.p. at 1,800 r.p.m. and a maximum torque of 171lb/ft at 1,200 r.p.m. A dry plate clutch transmits power through a constant mesh gearbox and provides six forward speeds ranging from 2.1 to 13.3 m.p.h. and two reverse speeds of 2.7 and 5 m.p.h. The machines have double acting rams of 4½in piston dia operating the top and reset of the

bucket. The main beam lift rams give a tearaway force of more than 6,200lb when the bucket is fully rolled back. All machines provide a height of lift under the lip of the tipped bucket of 11ft with 12ft 11in clearance under the bucket hinge. Maximum outreach is 5ft 10½in for the RD2 model and 5ft 5½in for the other two. A feature of the loaders is their small turning circle, that of the RD2 being 30ft. Frames are of welded rolled steel channel section and the driver's cab is totally enclosed. Buckets are available in capacities ranging from ½ to 2 cu yds and these are fitted with abrasion resistant blades and check plates. Available extras include power assisted steering and hydraulic transmission incorporating torque converter coupling and epicyclic gearbox instead of normal clutch and gearbox.

E. Boydell & Co. Ltd., Elsinore Road, Old Trafford, Manchester 16.

Readers' Information Service, Ref. N. Date 13/7/60.

★

**New Sinks**

A single drainer tap hole sink with an octagonal shaped bowl has recently been produced in vitreous enamelled steel. The shape of the new model enables the tap holes to be in the corners of the sink, which has a bowl capacity of five gallons, and is capable of holding a 14in basin. Tap holes can be positioned either for a right- or left-hand drainer and the unit is also available with tap holes at the ends so that the sink may be fitted in any part of the kitchen. The unit will fit the same base units as the present Curran reversible sink of the same measurements. Overall dimensions: 36in by 18in. Price: £6 5s 9d or £5 15s 9d without overflow.

Edward Curran Engineering Ltd., Cardiff.

Readers' Information Service, Ref. O. Date 13/7/60.

**Automatic Calculator**

Model SRW desk calculator is the latest addition to the Friden range of automatic calculators. It is claimed to be capable of extracting square roots automatically and to do this the radicand should be set on the keyboard and a single key touched, whereupon the square root will appear in the dials. A refinement is that the root can be retained in the machine for use in further calculations. In addition, the SRW has the following basic features:—automatic multiplication, automatic division, split upper dials for accumulative multiplication, automatic decimal point positioning and keyboard lock. Price: £660.

Bulmer's (Calculators) Ltd., Empire House, St. Martin's - le - Grand, London, E.C.1.

Readers' Information Service, Ref. P. Date 13/7/60.

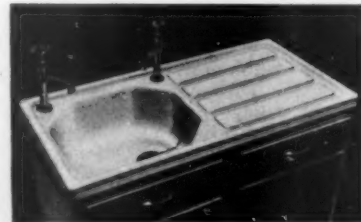
★

**Extractor Fan**

The Comet extractor fan is a compact, sturdy unit which can be fitted into any normal window. It has a 6in blade with a fixed metal cover which completely shields the exterior of the fan against wind currents. It leaves no holes or gaps and gives, it is claimed, efficient ventilation without draughts. The Comet requires an aperture of 8in dia for fixing. The unit is powered by a silent running 25W a.c. shaded pole motor which will not interfere with television or radio. The unit is constructed of rust-proof alloy material and has self-lubricating bearings. Finish: cream or white. Voltages: 200/220 or 220/250 a.c. Consumption: one unit of electricity in 40 hours running. Price: £6 12s 6d.

Hillman Electric Motors Ltd., Crane Grove, Highbury, London, N.7, North 5891.

Readers' Information Service, Ref. Q. Date 13/7/60.



Left: Muir-Hill FD4 four-wheel drive hydraulic loader. Top right: Curran vitreous enamelled single drainer sink top. Bottom right: Everine plastics waste fitting

where weight

matters

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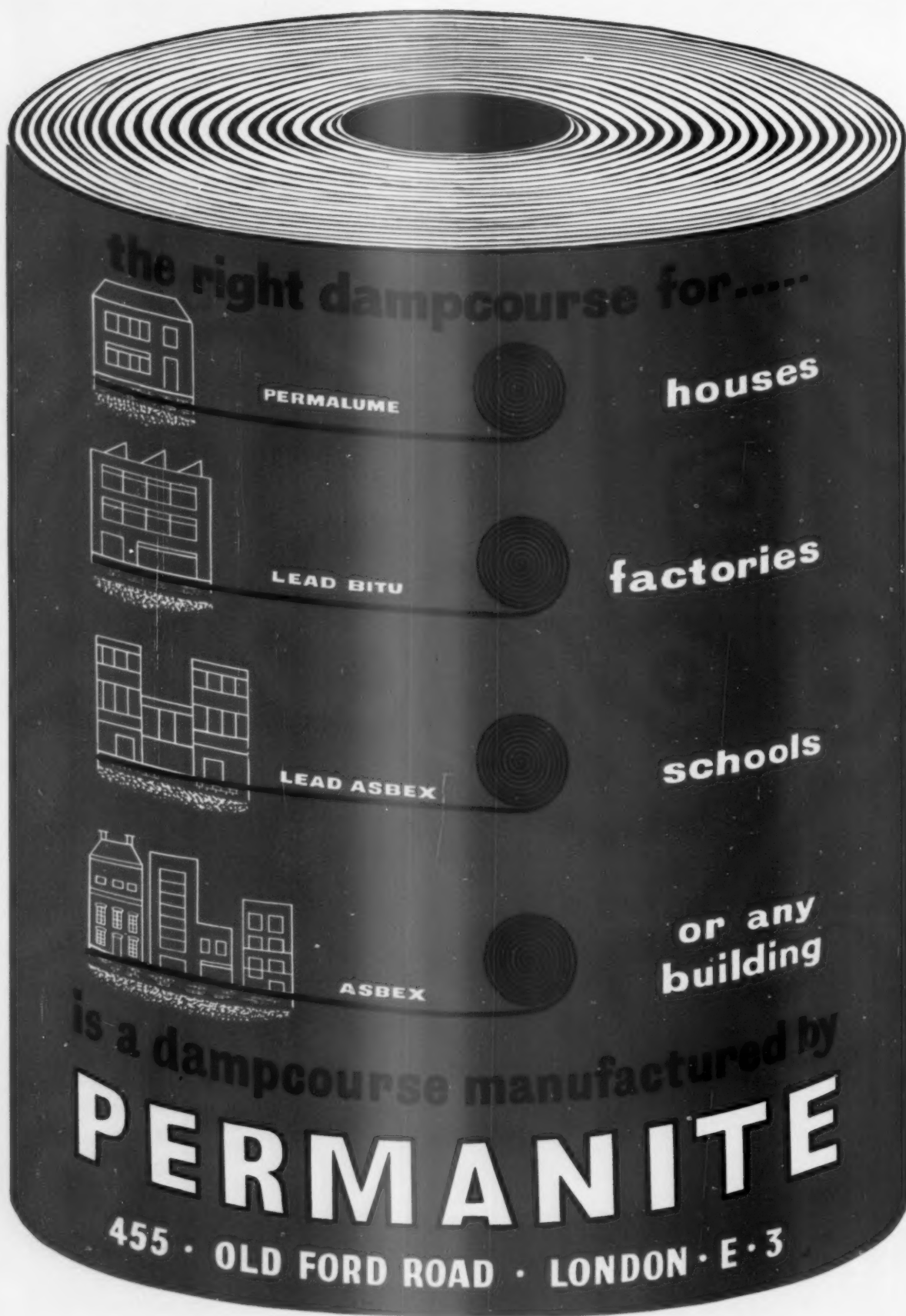
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*Technical literature covering all aspects of LYTAG will be forwarded on request. Write to:*


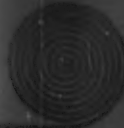
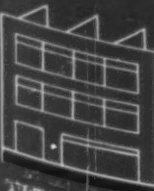

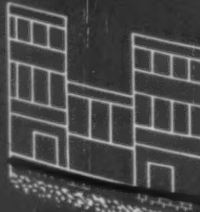


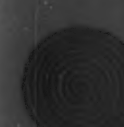
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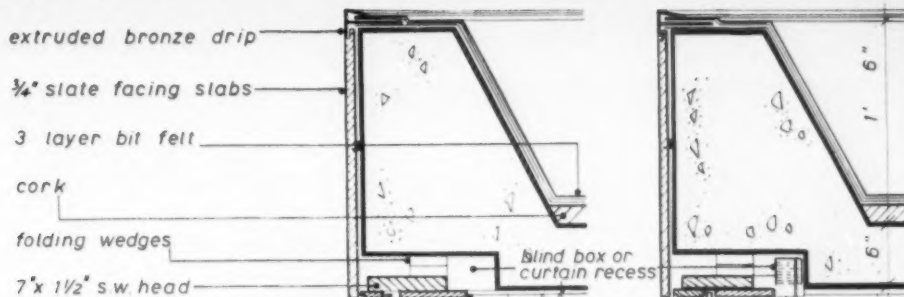
	<b>PERMALUME</b>		<b>houses</b>
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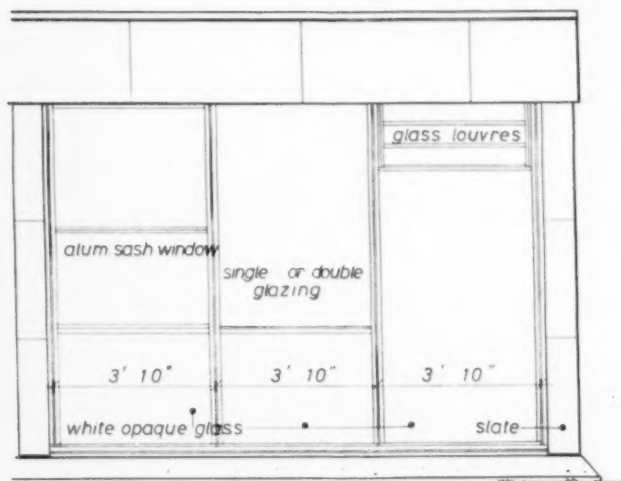
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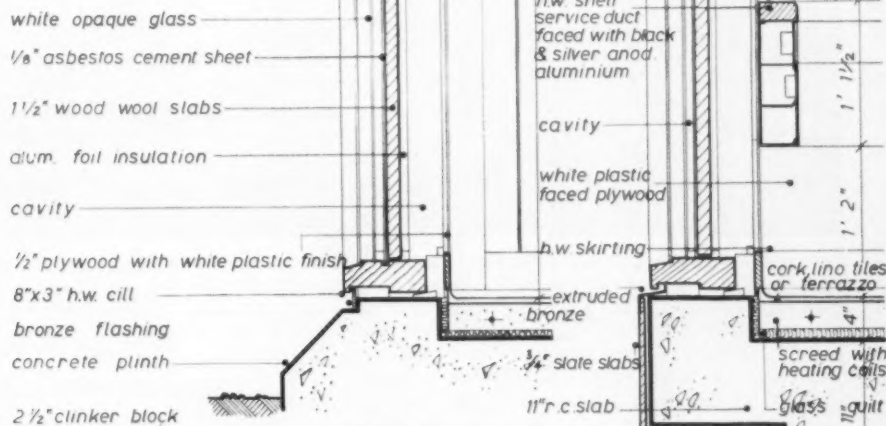
• 3/4" - 1' 0" • TYPICAL SECTIONS • single storey • two storey



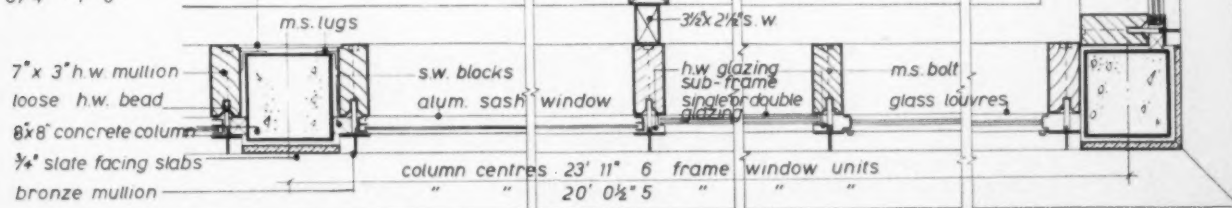
column centres 23' 11" 6 frame window unit to suit structural grid

" " 20' 0 1/2" 5 " " " " " " " "

COMPOSITE  
ELEVATION  
1/4" - 1' 0"



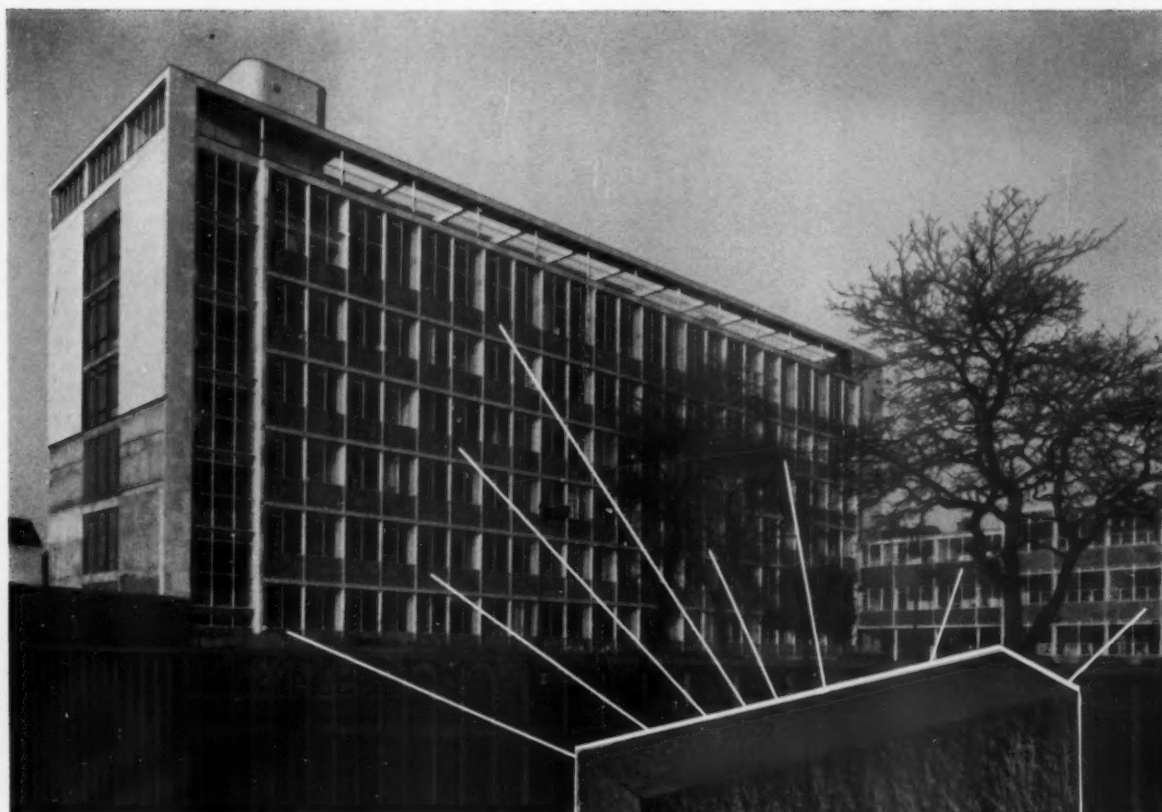
ASSEMBLY PLAN  
3/4" - 1' 0"





External facings to the Princess Margaret Hospital at Swindon have been chosen to reduce maintenance. The concrete frame is clad with slate slabs and the mullions are in bronze with vertically sliding sashes in aluminium frames and horizontal louvers. Fixed lights are glazed into hardwood subframes. The plinth is of local stone. Architects: Powell & Moya

## BROUGHTON MOOR OLIVE GREEN SLATE RIVEN FINISH



RUTHERFORD COLLEGE, NEWCASTLE UPON TYNE  
*Architect: George Kenyon, A.R.I.B.A.*

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For this contract, Broughton Moor Olive Green naturally riven slate was used, approximately 16,000 square feet being supplied in the form of Ormcraff panels, to which the Broughton Moor Olive Green Slate was cramped and bonded. About 5,000 square feet of the same slate was fixed traditionally.

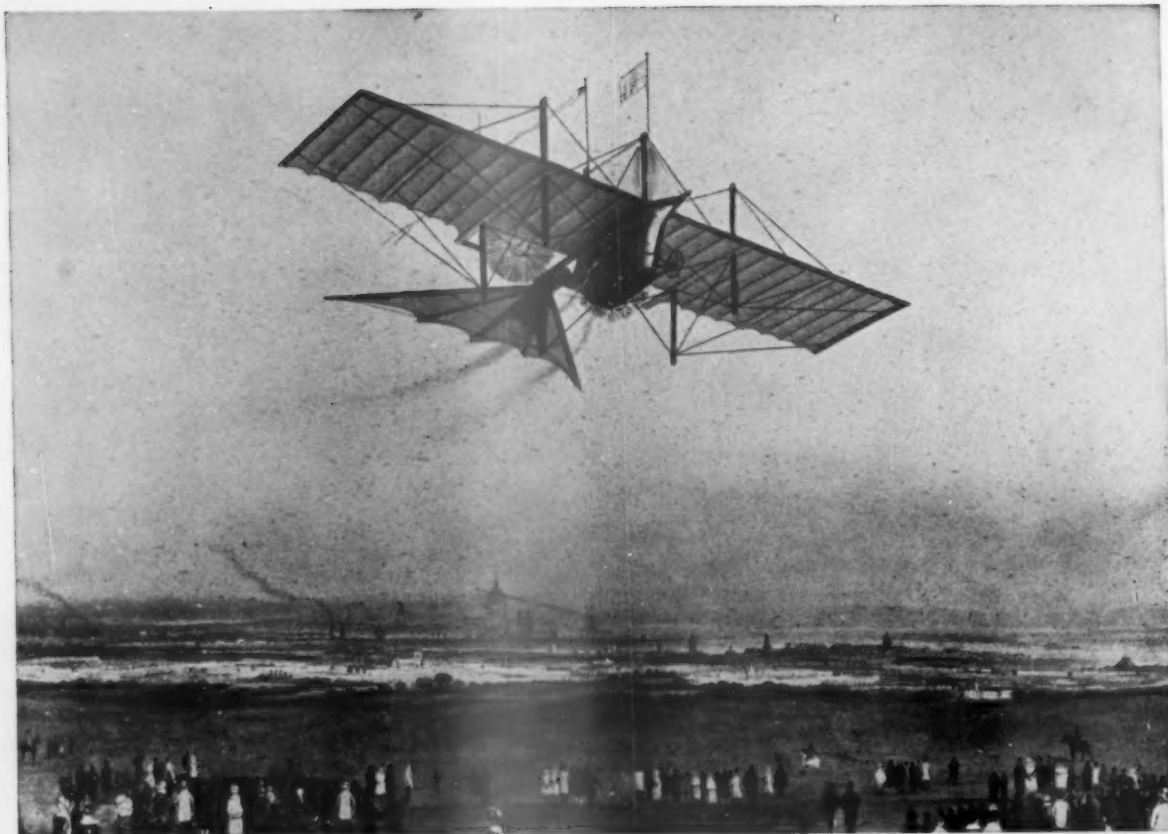
*\* An example of Broughton Moor Olive Green Slate showing the naturally riven finish. Finely rubbed, sanded and frame sawn finishes are also supplied and all are available in three distinct colours: Light Sea Green, Olive Green and Pale Green Barred. Technical pamphlets showing typical methods of fixing are available as follows: 1 Flooring, 2 Facing, 3 Coping, 4 Cills, 5 Riven Face Slabs*

# Broughton Moor

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*Architects: C. Edmund Wilford & Son.*

*Electrical Contractors: Freeman Electrical Company (London) Ltd.*

*Lighting Manufacturers: George Forrest & Son Ltd.*



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**Contract****News****WORK IN PROSPECT**

**Armagh U.D.C.** Erection of 86 houses and five garages at Drumarg. Apply to Surveyor's Office, City Hall, Armagh.

**Ballymoney, Co. Antrim.** Northern Ireland Ministry of Finance are to instal L.P. H.W. heating, hot, cold and drinking water services at the Post Office. Apply to Room 103, Law Courts Building, Belfast.

**Birkenhead Corporation.** The secretary of state has approved the provision of a short stay and receiving centre on the Prenton Dell estate, estimated cost £8,300.

The planning committee (a) has granted planning permission for four-storey maisonnettes, two-storey house, two-storey flats, two blocks of 11-storey flats and 33 garages in the Queensbury Street area; (b) has approved proposals for 44 houses and 66 flats on the Prenton Dell estate.

**Bradford Corporation.** The education committee has approved sketch plans for the South Bradford Secondary School for 750 pupils at Lister Avenue. Working drawings are to be prepared and tenders invited.

**Carrickfergus, Co. Antrim.** Erection of nine flats, three houses and 10 garages at Greenhedge. Apply to Town Clerk, Town Hall, Carrickfergus.

**Cheltenham Corporation.** Avon Metals Ltd. are to erect a suite of offices with staff amenities in Hales Road.

**Glasgow Corporation.** The planning committee (a) has granted planning permission for a factory in Burnfield Road, S.3, for Toffolo Jackson & Co. Ltd., 110 West Regent Street, C.2; (b) has approved an application submitted by Mr. J. R. Cheyne, 187 George Street, C.1, on behalf of the Ministry of Works for extensions to and adaptation of Shettleston District Post Office Sorting Office in Culrain Street, E.2.

**Greenwich B.C.** Planning applications for the conversion of the following properties have been approved (a) 98 Shooter's Hill into two semi-contained flats; (b) 52 Shooter's Hill Road into four semi-contained flats; (c) 128 Shooter's Hill Road into two maisonnettes; (d) 11 and 13 Kidbrooke Park Road into four semi-contained flats; (e) 34 Kidbrooke Park Road into three semi-contained flats; (f) 45 St. John's Park into three semi-contained flats; (g) 77 St. John's Park into two flats; (h) 104 Westcombe Park Road into two semi-contained flats; (i) 89 Humber Road into three semi-contained flats; (j) 18 Little Heath into two semi-contained flats; (k)

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55 Eastcombe Avenue into two flats; (l) 128 Westcombe Hill into two semi-contained flats; (m) 5 Shooter's Hill Road (basement and ground floor) into two semi-contained flats; (n) 59 Ashburnham Grove into two semi-contained flats.

**Guildford Corporation.** The library committee has approved a scheme, submitted by the borough surveyor, for the extension of the museum and muniment room. Tenders are to be invited.

**Kensington B.C.** Erection of 16 three-roomed flats, four four-roomed flats and 20 four-roomed maisonnettes with 40 stores and 24 garages. Tenders are now invited.

**Lewisham B.C.** Erection of 76 maisonnettes, 37 flats, 24 houses and 25 garages in Sydenham Park Road, Sydenham Park and Longfield Crescent. Tenders are to be invited.

**London C.C.** Erection of (a) a rectangular eight-storey drill-tower at Lee Green Fire Station, Woolwich; (b) a new wing for Tupman House, Dickens estate, Bermondsey, in the form of a five-storey block of 15 flats, 11 tenants' stores, estimated cost, including architectural expenses £40,500; (c) youth club on Abbey estate, Woolwich, cost £18,400; (d) secondary school for 1,000 boys at Whitehorse Lane, Stepney, cost £437,578.

The education committee is to build a day college in The Cut, Southwark.

The housing committee has approved the layout of the central portion of Abbey estate, Woolwich to provide 108 houses, flats and maisonnettes in blocks of 10, four, three and two storeys, 35 garages, parking space for 41 cars, children's play-space, arcade of six shops, child welfare and treatment centre, an estate office and a public convenience.

**Magherafelt, Co. Londonderry.** The hospital committee is to erect a unit for old people and chronic sick at the Mid-Ulster Hospital, estimated cost £50,000.

**Middlesex C.C.** The second floor of "Moorcroft", Hillingdon is to be used as a boarding home for mentally handicapped children, estimated cost of adaptations, furniture and equipment £14,450.

The home office has approved in principle plans for a home for 36 girls at Heath Lodge, Hanwell, estimated cost £66,500.

The health committee has approved a scheme for an adult training centre at Acton Lodge, Isleworth, estimated cost £34,690.

The welfare committee has approved a scheme for a home for 62 infirm old people at Bridge Road, Southall, estimated cost £79,070.

**Swindon Corporation.** Erection of (a) two pairs of police houses at Lyndhurst Crescent; (b) garage in Priory Road.

**Watford Corporation.** The borough engineer is to invite tenders for a further 12 houses on the Hillside estate.

The public libraries committee has approved revised plans for extensions to the central library and for the inclusion of offices for the Citizens' Advice Bureau at first floor level.

## SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

**Birkenhead Corporation.** Plans submitted for (1) erection of (a) four detached bungalows in Lingdale Road, submitted by J. C. Edwards for A. Skerrett; (b) storage building and electricity substation in Valley Road, submitted by Handsyde & Taylor for Fibreglass Ltd.; (c) club building in Lom Street, submitted by J. K. Abson for British Transport Commission; (d) engineering factory in Price Street/Vine Street/Livingstone Street/Vittoria Street for K.W.K. (Birkenhead) Ltd.; (e) departmental store in Hoole Road, submitted by G. S. Hay for Birkenhead & District Co-operative Society Ltd.

**Chelsea B.C.** Plans submitted for (1) erection of (a) students' hostel and teaching block at the College of St. Mark and St. John in King's Road; (b) four-storey block of flats with two penthouses in Ixworth Place and Marlborough Street; (c) riverside restaurant and public house in Lots Road; (d) shops, basement and flats in King's Road; (2) extension of bank premises in King's Road; (3) rebuilding of warehouse and saleroom in Burnaby Street; (4) outline application for factory and offices in Tetcott Road and Lots Road.

**Cheltenham Corporation.** Plans submitted for (1) erection of (a) three houses and 11 bungalows in Prestbury Road and Mendip Road for Marshalls (Charlton Kings) Ltd.; (b) ready-mixed concrete plant, office and laboratory premises in Alstone Lane for Cheltenham Ready Mixed Concrete Ltd.; (c) eight police houses in Hales Close for Gloucestershire C.C.; (2) outline application for (a) block of four-storey flats on Fenwick Lodge site for Air Commodore Derry; (b) five shops and six semi-contained flats with 12 garages in Orchard Avenue and Orchard Way for H. G. Pye; (c) 140 flats, 13 shops and 47 garages in Coronation Square, Edinburgh Place and Newton Road for Kingsgate Investment Co. Ltd.

**Dagenham Corporation.** Plans submitted for (1) erection of (a) industrial laboratory and storage building in Rainham Road South for May & Baker Ltd.; (b) three shops, seven maisonnettes and garages in Rainham Road South for T. Young & Sons; (2) outline application for extension to 422/426 Whalebone Lane South for Goodmayes Motors Ltd.; (3) extension of (a) factory in Selinas Lane for Hallam Metals Ltd.; (b) Moby Dick public house in Whalebone Lane North and Eastern Avenue for Mann, Cross & Paulin Ltd.; (c) factory in Fowler Road, Hainault for Art Steel Equipment Co. Ltd.; (d) factory in Peregrine Road, Hainault for W. Smith (Contractors) Ltd.

**Edmonton B.C.** Plans submitted for (1) erection of (a) two shops with three maisonnettes over and three one-unit garages in Fore Street; (b) warehouse, canopy over yard and toilet block at Pegamoid Works, Eley's estate; (c) seven houses and garages in Queen Anne's Place; (d) clinic in Plevna Road; (e) dairy, offices and staff room in Hertford Road; (f) temporary classroom at Latymer School, Haselbury Road and clinic in Silver Street, both for Middlesex C.C.; (2) conversion of a bay of factory into

toilet accommodation in Commercial Road; (3) extension to (a) factory on Kingsway estate; (b) factory at Angel Factory colony.

**Friern Barnet U.D.C.** Plans submitted for (1) erection of (a) five detached houses with garages in Oakleigh Park North, N.20; (b) 35 flats, 13 maisonnettes and 12 garages in Russell Lane for the U.D.C.; (c) ambulance depot in Colney Hatch Lane and a special training school in Oakleigh Road North, N.20, both for Middlesex C.C.; (d) block of four flats and four garages in Glenthorne Road, N.11, for F. J. Mortimer & Sons Ltd.; (2) outline application to demolish (a) existing house and erect six flats and six garages at 137 Friern Park, N.12, for C. Gladman; (b) existing property and erect two three-storey blocks of six flats and a block of 12 garages with access road and parking space at 4 Friern Barnet Lane, N.11, for R. Amesbury Ltd.

**Glasgow Corporation.** Plans submitted for (1) erection of (a) store as extension to Germiston Works, Petershill Road, N.1, for Marinite Ltd.; (b) store as extension to works premises in Townmill Road, E.1, for Thomas Wylie & Co. Ltd.; (c) single-storey storage building in Milan Street/Gourock Street for The Scottish Gas Board; (d) double factory unit in Shuna Place, N.W., for Vilmay Ltd.; (e) two-storey premises in Baltic Lane, S.E., for H. Connell & Co. Ltd.; (f) extension, comprising studio, dressing rooms, etc., and formation of three vehicle entrances, car parking areas and erection of boundary wall in Hamilton Drive/Queen Margaret Drive, W.2, for The British Broadcasting Corporation; (g) community centre in Castlemilk Drive for the education committee; (h) shops and houses in Great Western Road, W.3, for Town & City Properties Ltd.; (i) school and janitor's house in Robroyston Road for the education department; (j) 25 houses in Barrhead Road, Roughmussel for The Beechwood Building Co. Ltd.

**Greenwich B.C.** Plans submitted for (1) erection of (a) three-storey block of nine one-bedroom flats, five three-bedroom terrace houses and range of 16 garages in Westcombe Park Road; (b) block of flats and range of six garages in St. John's Park, with access from Langton Way; (c) office building and workshop in Greenwich High Road and alterations to access from highway; (d) building for use as shop with ancillary storage and canteen accommodation in Trafalgar Road; (e) 900ton grain (maize) silo at Tunnel Glucose Refineries Ltd., Tunnel Avenue; (f) four-storey block of flats with central staircase projection in Vanbrugh Park Road; (2) alterations to Ursuline Convent School, Crooms Hill and erection of extension; (3) outline application for alterations to 107-115 Eastmoor Street; (4) rebuilding and extension of Dutch Boy Laundry in Blackwall Lane; (5) conversion of (a) Nos. 101/103 Lee Road into seven semi-contained flats and one cottage; (b) No. 31 Westcombe Park Road into a students' hall of residence.

**Guildford Corporation.** Plans submitted for (1) erection of (a) four semi-contained flats and garages in Lower Edgeborough Road; (b) block of four semi-contained flats and garages in Albury Road; (c) two three-storey blocks of 24 flats and 28 garages in West Road; (d) four-storey

warehouse with offices and two semi-contained staff flats in Sydenham Road; (2) extension of (a) printing, photography and vehicle workshop departments at Guildford Technical College, Stoke Park; (3) outline application for (a) high-level car parking deck and extension of first floor office accommodation at Coombes Service Station in By-Pass Road; (b) manse in Southway; (4) demolition of (a) premises and rebuilding as a retail shop at 48 High Street for Maypole Dairy Co. Ltd.; (b) church hall in Sydenham Road and rebuilding as a place of worship; (5) elevations and internal layout of physical medicine department at the Royal Surrey County Hospital, Farnham Road; (6) layout for 31 houses and eight almshouses in Bushy Hill Drive; (7) alterations and additions to form three semi-contained flats at 48 London Road; (8) conversion of Nos. 8 and 10 Bailie Road into five semi-contained flats and erection of five garages.

**Hove Corporation.** Plans submitted for (1) erection of (a) block of eight flats and two additional garages in Caister's Close; (b) two blocks of 12 one-unit garages at Westbourne Place; (c) 33 detached houses with garages in St. Helen's Crescent and Downview; (d) vehicle service station at British Road Services Depot, Cambridge Grove; (e) single-storey factory with ancillary offices in Kingsthorpe Road; (f) eight-storey block of 52 flats with 18 garages

and parking space for eight cars in Kingsway; (g) five-storey block of semi-contained flats and eight garages in The Drive; (h) four-storey block of 12 one-bedroom flats and seven garages in Davigdor Road; (i) six-storey block of 46 single-room flats with 46 garages in Upper Drive Close; (j) 10 semi-detached houses, one detached house and 11 garages in The Paddock; (2) conversion of No. 2 Eaton Villas into five flats; (3) outline application for demolition of (a) existing flats and erection of a four-storey block of 20 flats and 20 garages; (b) 50 Palmeira Avenue and erection of a five-storey block of 35 flats with 35 garages; (4) demolition of Nos. 37/39 The Drive and erection of a block of 40 residential flats with caretaker's flat and 20 one-unit garages.

**Luton Corporation.** Plans submitted for (1) erection of (a) office, store and annexe at Kingsway Works for Laporte Chemicals Ltd.; (b) eight houses in Aldhous Close for D. Nott & Sons; (c) 24 one-unit garages in Runfold Avenue for Mr. Austin Sprake; (d) executive and drawing office block in Burr Street for Mr. G. P. Brown; (e) 24 semi-contained flats with garages and storage under and block of 18 garages with washing bay and clothes drying area off Richmond Hill for Contemporary Homes Ltd.; (f) two blocks of old people's houses at Farley Hill for the Corporation; (g) swimming pool and science block at

Luton High School, Alexandra Avenue and additional classrooms at Chalney C.S.M. School, both for the Local Education Authority; (h) staff quarters at Luton & Dunstable Hospital, Lewsey Road for Luton & Hitchin Group Hospital Management Committee; (i) licensed premises with car park, between Cannon Lane and Swifts Green Road for Whitbread & Co. Ltd. and Flowers Breweries Ltd.; (j) shops and offices with car park at junction of Putteridge Road and Hitchin Road and three pairs of houses with six garages in Swasedale Road both for H. C. Jones Ltd.; (k) 170 houses in Albermarle Close, Aldenham Close and Abercorn Road for the Corporation; (2) conversion of the Horse and Jockey public house, Manchester Street into retail shop with new shop front for Lewis Shop Holdings Ltd.; (3) demolition of buildings and erection of showroom and offices for sale of second-hand cars in Moor Street for Mr. A. E. Palmer.

**Stoke Newington B.C.** Plans submitted for (1) erection of (a) 61 lock-up garages in Somerfield Road for Somerfield Lock-up Garages Ltd.; (b) block of 12 flats and eight garages in Green Lanes for Talbot & Co.; (c) three-storey block of 12 flats and four garages in Victorian Road for L. J. Michaels; (d) four-storey block of flats and four garages in Lordship Road for Ord, Carmell & Kritzler.



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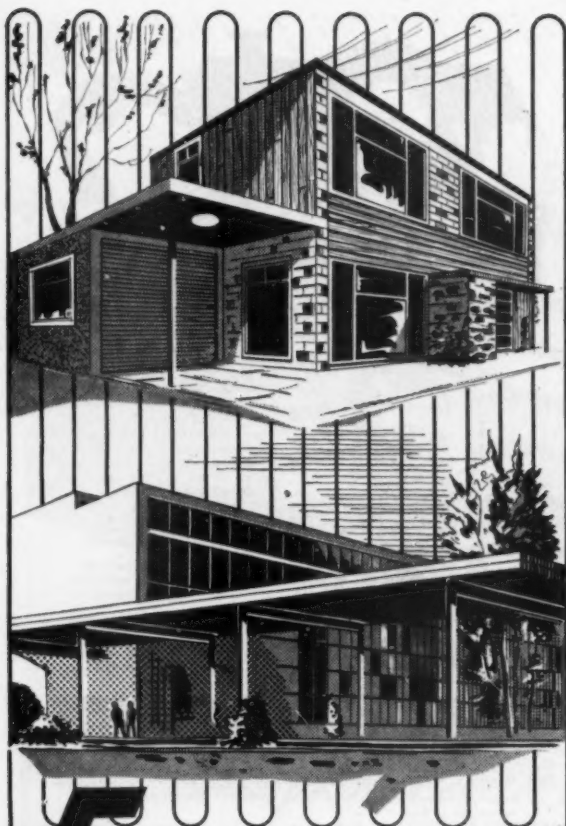
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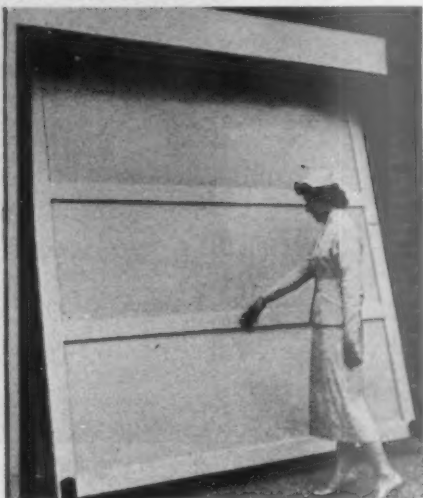
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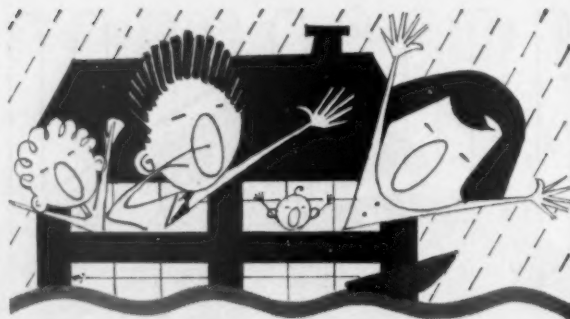
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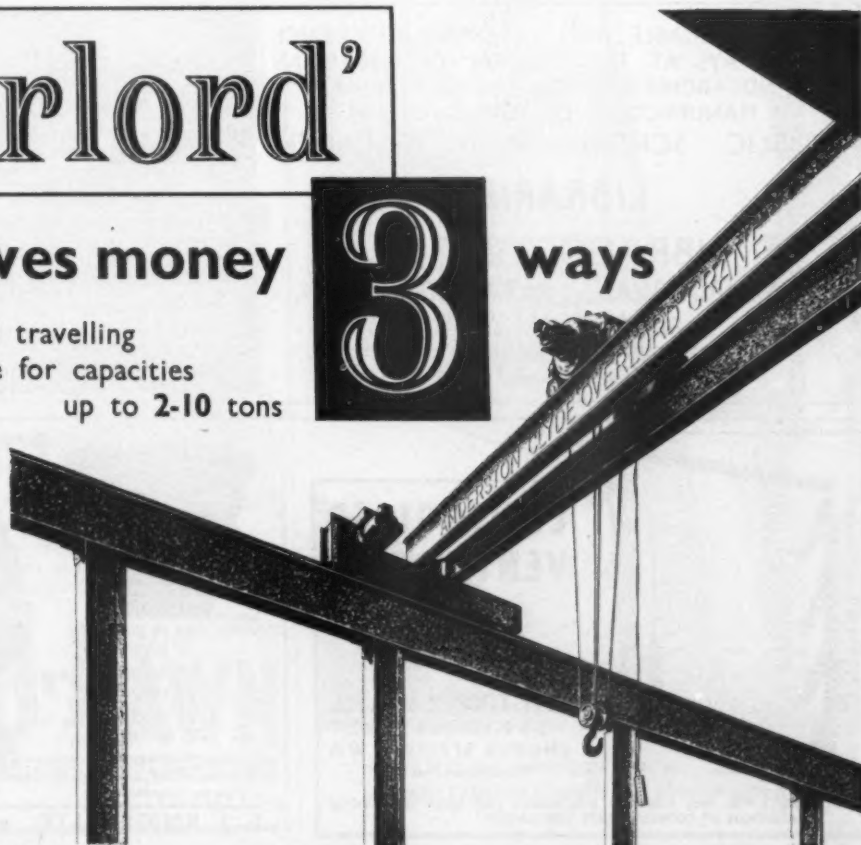
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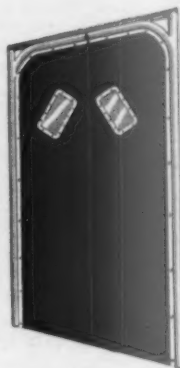
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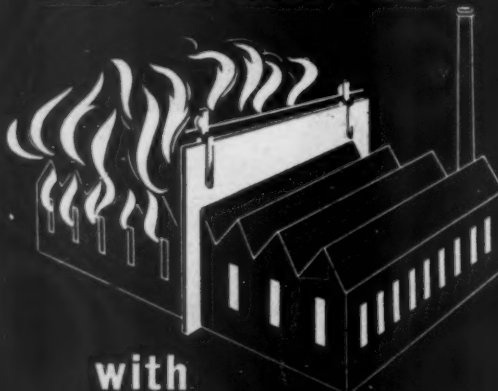
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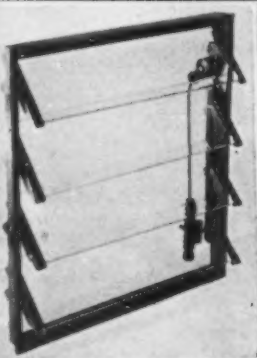
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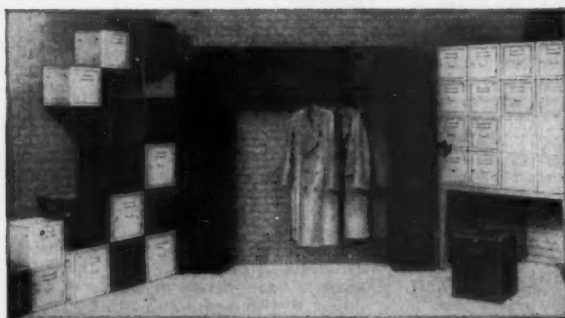
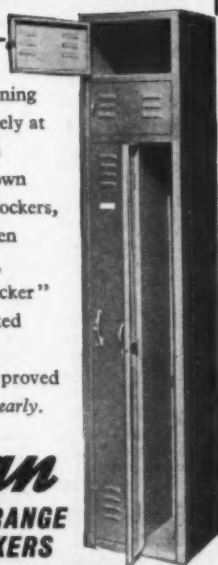
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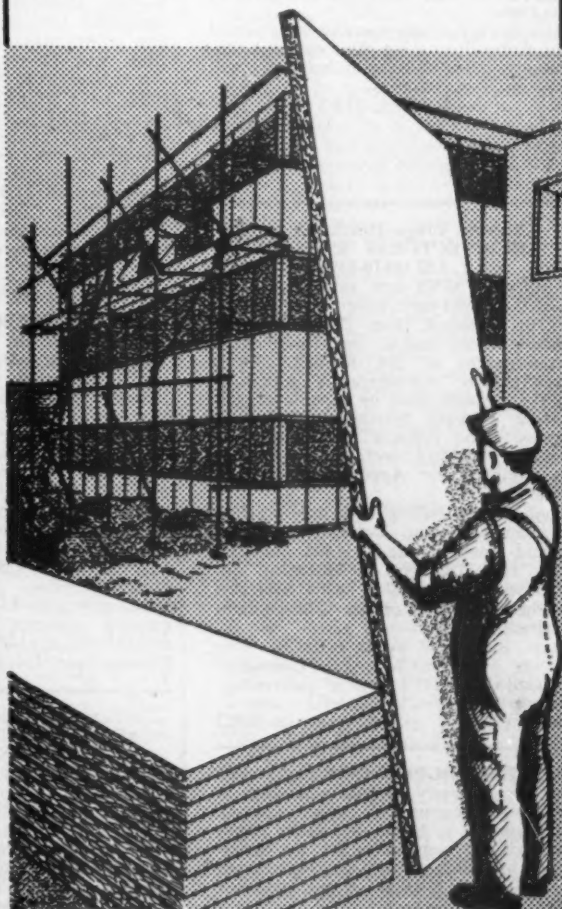
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## APPOINTMENTS

### Borough of Hove SENIOR ASSISTANT ARCHITECT Grade A.P.T. IV (£1,065-£1,220)

APPLICATIONS are invited for the appointment of Senior Assistant Architect in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV. Candidates should have a general experience including the preparation of drawings and specifications and should have passed the Final examination of the Royal Institute of British Architects or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service, Local Government Superannuation Acts, medical examination and one month's notice on either side.

Applications stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees must be received by the undersigned not later than Wednesday, July 20, 1960.

Relationship to any member or officer of the Council must be disclosed and canvassing, either directly or indirectly, will be a disqualification.

JOHN E. STEVENS,  
Town Clerk.

Town Hall,  
Hove 3,  
June 20, 1960. [6692]

### Thurrock Urban District Council ARCHITECTURAL ASSISTANT A.P.T. I/II (£610-£880 p.a.)

APPLICATIONS are invited for the above appointment under the Architect to the Council, from candidates who should have passed the Intermediate Examination of the R.I.B.A. Good architectural experience is necessary, and applicants must be capable of preparing working drawings in all categories. The Council have interesting projects in hand, including an Indoor Swimming Bath. Appointment pensionable.

Applications, stating age, qualifications and experience, and quoting two referees, should reach the undersigned not later than July 18, 1960. Canvassing disqualifies. Relationship with Members or Senior Officers of the Council must be disclosed.

A. E. POOLE,  
Clerk of the Council.

Council Offices,  
Grays,  
Essex. [6725]

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### County Borough of Bury

APPLICATIONS invited for the permanent appointment of **SENIOR ASSISTANT ARCHITECT**, A.P.T. IV (£1,065-£1,220). Commencing salary according to qualifications and experience.

Applicants should be experienced in dealing with contracts for large public works and should be professionally qualified.

Applications, stating age, details of training, qualifications, experience, present and previous appointments and salary, together with the names of two referees, must reach me by July 25, 1960.

EDWARD S. SMITH,  
Town Clerk.

Town Hall,  
Bury,  
July 1, 1960. [6738]

**ARCHITECTS AND MAINTENANCE SURVEYORS.** Pensionable posts for men and women at least 25 and under 35 on January 1, 1960 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate membership. Salary (men, London) £830-£1,125 according to age, rising to £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting S 60-61. [6740]

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Closing Date: July 25, 1960. [6741]

### Government of Sierra Leone ARCHITECT, PUBLIC WORKS DEPARTMENT

REQUIRED to prepare plans and specifications for Government buildings including houses, offices and hospitals. Contract appointment. Salary range £1,470-£2,145 a year. Gratuity 15 per cent of salary. Free passages. Rented quarters. Children's allowances. Candidates preferably under 45 years, must be A.R.I.B.A. Write Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience quoting BCD 112/15/011/E1. [6759]

**East Riding of Yorkshire County Council**  
APPLICATIONS are invited for the appointment of **ASSISTANT ARCHITECTS** on the staff of the County Architect.

The salary will be in accordance with the N.J.C. Special Scale (£785 to £1,070 per annum).

Applications giving particulars of qualifications, experience, age, past and present appointments with salaries, together with the names of three referees should be sent to the County Architect, County Hall, Beverley, not later than Saturday, July 23, 1960.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,  
Clerk of the Council. [6744]

### County Borough of East Ham ASSISTANT PLANNING OFFICER (Grade A.P.T. I £610-£765)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

A subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date August 2, 1960. [6755]

### Urban District of Brownhills

APPLICATIONS are invited for the following appointments in the Engineer and Surveyor's Department:—

(a) **Chief Architectural Assistant** at a salary within Grade A.P.T. IV/V (£1,065/£1,375 per annum) according to experience.

(b) **Junior Architectural Assistant** at a salary within Grade A.P.T. I/II (£610/£880 per annum) according to qualifications and experience.

Candidates for appointment (a) must have passed the Final Examination of the Royal Institute of British Architects and have had considerable experience in the preparation of plans and specifications, with particular reference to the design of Council houses. Casual user car allowance will be paid.

For post (b) preference will be given to candidates who have passed the Intermediate Examination of the Royal Institute of British Architects.

Housing accommodation will be made available if required and the appointments are subject to one month's notice on either side.

Applications, stating age, qualifications, full particulars of training and experience, together with copies of two recent testimonials, must be delivered to the undersigned not later than Wednesday, July 20, 1960.

NORMAN WAINE,  
Clerk of the Council.

Council Offices,  
Brownhills,  
Nr. Walsall,  
Staffs.  
July 2, 1960. [6747]

## Official Announcements

### APPOINTMENTS (cont)

**Bracknell Development Corporation**  
APPLICATIONS are invited for the post of **ARCHITECT**, salary range £1,163-£1,390. Applicants must be Corporate Members of the R.I.B.A. Superannuation schemes, medical examination. Housing available. Apply by August 3, 1960, giving age, education and qualifications, experience and appointments held (with dates and salaries) and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. [6745]

**County Borough of Derby**  
Borough Architect's Department  
(a) **Senior Assistant Architect**, A.P.T. Grade IV: (£1,065-£1,220 per annum). Qualifications: A.R.I.B.A.  
(b) **Senior Assistant Architect**, Special Grade (£785-£1,070 per annum). Qualifications: A.R.I.B.A.  
(c) **Junior Architect**, General Division (£210-£595 per annum). Qualifications: Probationer R.I.B.A.  
or  
**Assistant Architect**, A.P.T. Grade I (£610-£765 per annum). Qualifications: Intermediate R.I.B.A.  
(d) **Senior Quantity Surveyor**, A.P.T. Grade III/IV (£880-£1,220 per annum). Qualifications: A.R.I.C.S. (Quantities) or A.I.Q.S. or A.I.A.S. with appropriate experience.  
(e) **Junior Quantity Surveyor**, General Division (£210-£595 per annum). Qualifications: Student member R.I.C.S. with previous experience in Quantity Surveyor's Office  
or  
**Assistant Quantity Surveyor**, A.P.T. Grade I (£610-£765 per annum). Qualifications: Intermediate R.I.C.S. with good experience in working up Bills of Quantities and Final Accounts, measuring on site and taking off for small works. Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.  
Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation Street, Derby, not later than Wednesday, August 3, 1960.

N. S. FISHER,  
Acting Town Clerk. [6746]

July 5, 1960.

### The Glasgow School of Architecture The Royal College of Science and Technology Lectureship

APPLICATIONS are invited for the post of Lecturer-Studio Assistant in the scale £1,050 to £1,850 with placing according to qualifications and experience. F.S.S.U. and Family Allowances.  
Applications, stating age, academic qualifications and experience and giving the names of three referees, should be sent by July 30, to the Secretary-Treasurer, from whom further particulars can be obtained. [6765]

**City of Birmingham**  
APPLICATIONS are invited for appointments as **ASSISTANT ARCHITECTS** in the City Architect's Department at commencing salaries, according to experience and capabilities, within the following grades:—

- (a) A.P.T. IV (£1,065-£1,220 per annum). Applicants should be fully qualified.
- (b) Special Scale (£785-£1,070 per annum). Applicants should have passed Parts I and II of the Final R.I.B.A. Examination or hold equivalent qualifications.

A large new Exhibition Hall with multi-storey car park and other public buildings, forming part of the new Civic Centre plan, are included in a building programme which also comprises Schools, Technical Colleges, Colleges of Further Education, and Schemes of Comprehensive Housing Development, including tall blocks of dwellings, Shopping Centres and ancillary buildings.

A great opportunity exists for enthusiastic and imaginative Architects who wish to assist in work of such architectural importance. Pension Scheme. Five-day week. Medical Examination.

Applications stating appointment applied for, age, present position and salary, qualifications, experience and two referees to reach the undersigned by July 29, 1960.

A. G. SHEPPARD FIDLER,  
City Architect.

Civic Centre,  
Birmingham 1.

[7652]

### ARCHITECTS, LANDSCAPE ARCHITECTS, BUILDING SURVEYORS AND QUANTITY SURVEYORS

In the L.C.C. Parks department the professions work in association on the design, construction and improvement of parks and open spaces. Opportunities for specially interesting collaboration between architects and landscape architects. Up to £1,250 a year for qualified staff or to £950 for those in process of qualifying.

Apply to Chief Officer (AI/ABN/1813/7), L.C.C., Parks Dept., County Hall, [S.E.1] (WATERloo 5000, Ext. 8076).

### ADMIRALTY—NAVY WORKS DEPARTMENT

Architectural Assistants are required in the newly-formed Architects' Branch at Pinner where a wide variety of new works is being handled comprising all forms of accommodation building, i.e. for sleeping, messing and recreation of naval personnel, instructional buildings, hospitals, industrial type of buildings in Dockyards, office blocks, housing estates and residences.

Architectural Assistants will work in groups with professional grade Architects.

Candidates are expected to be keen to explore new forms of construction and must be quick and competent draughtsmen. Preference will be given to those who are studying for professional qualifications and successful candidates will be considered for day release to help them in their studies.

Salary: (London Rate) starting £570 p.a. (at age 21) to £783 (28 and over): maximum of scale £900 p.a.

Opportunities exist for promotion to Leading grade (salary maximum £1,055 (London Rate)) and further prospects for those becoming fully qualified are favourable. Every facility will be given to Assistants to obtain the necessary professional practice for Part III of their final examination.

Five-day week—annual leave 18 days rising to 22 after 10 years.

Candidates, who must be British subjects, are invited to apply in writing, giving details of qualifications and experience, to Director General, Navy Works, Admiralty, Chamberlain Way, Pinner, Middlesex.

### County Borough of Middlesbrough CENTRAL AREA REDEVELOPMENT

APPLICATIONS are invited for the temporary appointments in the Borough Engineer and Surveyor's Department of two **Senior Assistants** at a salary of £1,300 per annum. Applicants must be A.M.T.P.I. and have a recognized qualification in engineering or architecture. The appointments are for a minimum period of three years and the duties will consist of work on the Review of the Development Plan and the preparation of Schemes for Central Area Redevelopment including Comprehensive Development Area Maps. Applicants must be thoroughly experienced in this work. National Joint Council Conditions and Superannuation Scheme.  
Application forms from J. A. Kenyon, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer and Surveyor, Municipal Buildings, to be returned, together with copies of two recent testimonials by July 21, 1960.

E. C. PARR,  
Town Clerk. [6751]

### Municipal Council of Mombasa APPOINTMENT: BUILDING INSPECTOR

APPLICATIONS are invited for the post of Building Inspector in the Municipal Engineer's Department.

Candidates should possess a Building Inspector's Certificate of the Institution of Municipal Engineers, or an equivalent qualification, and have had considerable experience in the administration of Building By-laws and Town Planning procedure. The appointment is in the scale £975 x £47 to £1,351 x £53 to £1,457 per annum, and is subject to the Council's Contract Terms of Service, for a period of three years with a possibility of further three-yearly contracts subject to satisfactory service, details of which may be obtained on application to the undersigned.

The initial placing in the salary scale will depend on qualifications and experience. Information should also be given as to whether married or single and the number of dependants.

Applications, together with copies of three recent testimonials and professional certificates should be made in writing to reach the undersigned not later than August 15, 1960. Canvassing disqualifies.

A. V. RATCLIFF,  
Town Clerk.

Town Hall, P.O. Box 440,  
Mombasa, Kenya.  
June 23, 1960.

[6758]

### ARCHITECTURAL ASSISTANT

REQUIRED by Nyasaland Government Public Works Department on contract for one tour of 24-36 months in first instance. Salary according to age and experience in scale £985 rising to £1,540 a year. Gratuity at rate of 10 per cent of total salary drawn. Outfit allowance £30. Free passages. Liberal leave on full salary.

Candidates 25-35, should have passed Intermediate R.I.B.A., have had at least five years' experience in Architect's Office, have a good standard of draughtsmanship and possess a sound knowledge of building construction, and be capable of carrying out site surveys including topographical work. Experience of tropical architecture an advantage.

Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, qualifications and experience and quote M2B/51066/AF. [6757]

## Official Announcements

### APPOINTMENTS (cont)

#### Air Ministry Works

DESIGN branch requires in London and Provinces **ARCHITECTURAL ASSISTANTS** with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognized courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted.

Salary: in London ranges from £680 (age 25) to £900 p.a. for men; from £673 to £868 p.a. for women; somewhat lower in provinces. Commencing salary dependent on age, qualifications and experience.

Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d., Lacon House, Theobalds Road, London, W.C.1, or apply to any employment exchange, quoting King's Cross 891, giving age, details of training and qualifications. Full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed. [0346]

#### Lancashire County Council

County Architect's Department

**SENIOR ASSISTANT ARCHITECTS** (£1,320 to £1,485 according to experience, and covered by Lancashire County Council Superannuation Scheme). The Governors of Salford College of Advanced Technology are proceeding with a major expansion of the College. This project is to be of advanced design offering opportunity for experience in the design of buildings to meet the needs of pioneer scientific processes, which are estimated to cost £3,000,000.

The team for this scheme will work with Messrs Ove Arup & Partners, Structural Consultants, and will include Quantity Surveyors and Mechanical Engineers. The team will work in the County Architect's office at Preston.

On completion of the project, architects will be engaged on a wide variety of new buildings for the Lancashire County Council.

Application forms and details from: The County Architect, P.O. Box 26, County Hall, Preston, returnable by July 29, 1960, quoting reference A/ABN. [6763]

#### Leeds Regional Hospital Board

APPLICATIONS are invited for the following appointments:—

(a) **Assistant Architects.** Salary scale £905-£1,310 p.a. Candidates should be registered architects.

(b) **Architectural Assistants.** Salary scale £625-£900 p.a. Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had previous drawing office experience.

The board's offices are in Harrogate in pleasant surroundings and an excellent canteen is available on the premises.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, to The Secretary, Park Parade, Harrogate, by August 3, 1960. [6764]

#### Worcestershire County Council

County Architect's Department

APPLICATIONS are invited for the positions of:—

**Senior Assistant Architects, Grade IV** (£1,065-£1,220).

**Architectural Assistants, Grade III** (£880-£1,065).

**Assistant Architects, Special Grade** (£785-£1,070).

**Heating Engineering Assistant, Grade II** (£765-£880).

The Senior Architects should be qualified members of the R.I.B.A. and should preferably have had some experience of Education work, though this is not essential.

The Assistant Architects are required for education, police, health and fire brigade projects of a large and varied nature. Previous experience of these types of contracts is not necessary, but the applicants should have an architectural training, a good knowledge of building construction and practice and be reliable draughtsmen.

The Heating Engineering Assistant is required for work in connection with general fuel economy in county buildings in conjunction with N.I.F.E.S. and will be responsible for the general maintenance of all types of heating equipment, instructing caretakers on operation of it and issuing orders to contractors for necessary repairs, etc. He may also prepare simple drawings and specifications for small heating systems and conversions. This position will give interesting and varied work and experience which could lead to future promotion.

The County Council has a certain amount of housing accommodation for staff and the successful candidates may apply for this as it is available. The council also makes some allowance towards necessary removal expenses to married applicants.

A five-day week is in operation.

Forms of application may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle Street, Worcester (B.106). [6761]

#### Lancashire County Council

County Architect's Department

**SENIOR ASSISTANT ARCHITECTS**

(£1,320 to £1,485 according to experience).

Applications are invited from experienced, registered architects to deal with a wide variety of buildings, including Magistrates' Courts, Police Training Schools and Technical Colleges.

Application forms and details of appointments from: The County Architect, P.O. Box 26, County Hall, Preston, returnable by July 29, 1960, quoting reference A/ABN. [6762]

#### Northern Polytechnic,

Holloway, London, N.7

THE Governing Body invites immediate applications for appointment as **ASSISTANT STUDIO INSTRUCTOR** in the Department of Architecture as from September, 1960. Applicants must be Associates of the Royal Institute of British Architects by examination and have had at least three years' professional experience after qualification; teaching experience in a Recognized School would be an advantage. Salary scale £700 x £27 10s-£1,112 10s x £37 10s-£1,150, together with allowances in accordance with the Burnham Award. Commencing salary according to age, qualifications and experience. Apply for form of application and further particulars.

R. H. CURRELL, F.C.A.

Clerk.

[6749]

#### Merioneth County Council

**SENIOR PLANNING ASSISTANT** required. Applicants should be Corporate Members of the Town Planning Institute or hold an equivalent qualification. Salary within Grades A.P.T. III and IV according to qualifications and experience. A car allowance will be paid on the "Essential User" scale for a car not exceeding 1199 c.c. Further particulars and application form from Clerk of the County Council, County Offices, Penarllyn, Dolgellau. Closing date: August 15, 1960. [6750]

#### ASSISTANT ARCHITECTS

required by

A. H. Anderson Limited

THIS Company which, in connection with its method of construction known as A.75, provides a comprehensive design and management service, requires a number of fully qualified Assistant Architects.

The work covers not only research and development in conjunction with associated consultants, but also the design and supervision of complete projects throughout the British Isles.

Current schemes vary from single-storey to five-storey developments, using timber, steel and concrete components, and include offices, schools, factories, residential, welfare and community buildings.

Applications in writing to Derek Stephenson, B.Arch., A.R.I.B.A., Chief Architect, A. H. Anderson Limited, 66 Victoria Street, London, S.W.1. [6760]

## ARCHITECTS

required by LONDON TRANSPORT

EXECUTIVE for the following posts:

**ASSISTANT ARCHITECTS:** Salary range £1,070 p.a. — £1,245 p.a.

Applicants must be fully qualified and capable of supervising staff. (Reference 100/A/1)

**ARCHITECTURAL ASSISTANTS:** Salary ranges £855 p.a.—£951 p.a.

£989 p.a.—£1,028 p.a.

Applicants should be qualified to R.I.B.A. Intermediate standard with previous office experience. (Reference 100/B/2)

**FREE TRAVEL; 5 DAY WEEK; medical examination; contributory superannuation after probationary period.** Applications quoting reference number of post applied for and giving age, qualifications and full details of previous experience should be sent to Staff and Welfare Officer, LONDON TRANSPORT EXECUTIVE, 55 Broadway, S.W.1.



## Official Announcements

### ARCHITECTURAL APPOINTMENTS VACANT

**ARCHITECTURAL ASSISTANT** required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916]

**ARCHITECTURAL ASSISTANT**, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

**BASIL SPENCE & PARTNERS** require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [0740]

**ARCHITECTURAL ASSISTANT**, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

**DEVEREUX & DAVIES** require capable and enthusiastic assistant architects, salary £1,000 per annum or according to experience and ability.—Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1. [0660]

**JUNIOR ASSISTANTS** required. Salary according to experience. Apply H. & H. M. Lidbetter, F./R.I.B.A., 2 Verulam Buildings, Gray's Inn, W.C.1. [6700]

**YORKE, ROSENBERG & MARDALL** need six or more really good assistants with two years' experience at about £1,000 a year. Phone Ambassador 4521. [6706]

**FRY, DREW & PARTNERS** require qualified assistants for interesting and important work in England. Salary range £750-£1,000. Apply 63 Gloucester Place, W.1. (WEL 3318). [6704]

**SENIOR ARCHITECTURAL ASSISTANT** required, A.R.I.B.A. essential, only those having previous Industrial experience should apply, stating age, experience and salary required, to The Group Architect, Associated Electrical Industries (Rugby) Limited, Mill Road, Rugby, Warwickshire. [6721]

**CHARLES B. PEARSON & SON** require Architectural Draughtsmen for varied modern practice in pleasant County Town Lancaster/Morecambe, which provides very economic living conditions. Minimum salary £650 p.a., 5-day week. 3 weeks' annual holiday. Write with full details to Charles B. Pearson & Son, Architects, 18 Dalton Square, Lancaster. Telephone 4234. [6730]

**GOLLINS, MELVIN, WARD & PARTNERS** are looking for staff to work on the design of hospital, university and office projects. Age and experience are less important than enthusiasm and interest in architecture. Fixe-day week, quarterly bonuses, pension scheme. Ring WELbeck 9991 for appointment. [6728]

**WEST END OFFICE** requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box No. 0627. [0380]

**COMPETENT ASSISTANTS** with design ability and initiative required to handle various contemporary projects. Salary range £800-£1,200 with bonus scheme. Holiday commitments honoured. Box No. 0770. [6743]

**ARCHITECTURAL DRAUGHTSMAN** required in the Architect's Office of a large Builders and Contractors. Must be a good and accurate draughtsman with experience of large scale detailing. House design experience an advantage. Permanent position to suitable applicant. Pension scheme available after qualifying period. Write stating age, experience and salary required to Chief Architect, H. C. Janes Ltd., 183 High Town Road, Luton. [6753]

**TO ARCHITECTS** living in the Hemel Hempstead area. Mr. Clifford Culpin, having been appointed architect for the new Town Hall, the new Pavilion and several other important buildings in the Hemel Hempstead locality, proposes opening a local office. It occurs to him that architects tired of commuting might like to work locally for a London firm. By the courtesy of the Borough Council, those interested may gather at the Council Offices on Saturday morning, August 13, when aims and aspirations can be discussed following which individual interviews can take place. Please write briefly to Clifford Culpin & Partners, F./A.A.R.I.B.A., 39 Doughty Street, London, W.C.1. [6756]

**B.B.C. REQUIRES ARCHITECTURAL STAFF** in London for work in connection with studios, office blocks, transmitting stations, etc. Candidates should have an interest in contemporary design and a sound knowledge of construction. (a) Architectural Assistant, salary in scale £935-£1,185 p.a. Applicants should have Final R.I.B.A. with two years' office experience. (b) Architectural Assistant, salary in scale £800-£1,025 p.a. Applicants should be students R.I.B.A. with two years' office experience. Requests for application forms to Engineering Recruitment Officer, Broadcasting House, London, W.1., quoting ref. EX.60.30.A.B.N. [6754]

**POWELL AND MOYA** require Architectural Assistants of all grades to work on new Hospital schemes. Please write to 36 Great Smith Street, London, S.W.1, or telephone: ABBey 3156. [6748]

**ASSISTANT** urgently required, Intermediate to Final standard. Single man preferred willing to work in either City or country office in Buckinghamshire. Interesting and varied work. Salary from £600 plus L.V. G. Gordon Stanham, Adamson, Gray & Partners, 9/10 Fenchurch Street, London, E.C.3. MANSion House 1010 and 5274. [6739]

## Miscellaneous Announcements

**Rate** • 1/9d per line, minimum 3/6d, average line 6 words. Each paragraph charged separately.

**Situations wanted** • advertisements are accepted at the specially reduced rate of 6d per line, minimum 1/6d

**Box Numbers** • add two words plus 1s for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

**Semi-display** • advertisements with centralized lines are charged at 25s per inch, and pro rata, minimum half inch.

**Press Day** • Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

NO RESPONSIBILITY ACCEPTED FOR ERRORS

### SITUATIONS WANTED

Advertisements under this heading only are accepted at the specially reduced rate of 6d per line, minimum 1/6.

**ARCHITECT**, diploma July, 1960, Belgium Academy, capable, serious, wanting to find employment, anxious to use ability and initiative to fullest extent. Plans and references available. Box No. 0750. [6742]

### EDUCATIONAL

**CANDIDATES PREPARED FOR R.I.B.A.** Supplementary tuition and Revision Courses also arranged in any subject. Write to the Principal (A. B. Waters, F.R.I.B.A., F.I.Arb.), Ellis School of Architecture, 103c, Old Brompton Road, London, S.W.7, or to Albany House, Worcester. [0084]

### BUILDINGS FOR SALE

**SECOND-HAND** Sectional Timber Buildings, 24ft x 12ft, £102; 30ft x 15ft, £138; 40ft x 18ft, £192; 60ft x 20ft, £302, floors extra, delivery included 100 miles. Also similar new buildings; lists. Universal Supplies, Crabtree Manorway, Belvedere, Kent (Erith 32948). [0760]

### WORK WANTED

**EXCAVATION** sub-contracts, site development, overburden removal, clay getting, earth dam construction, etc. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D.9, D.8, TD.18 and TD.14 scrapers, excavators, loading shovels and lorries available with competent and imaginative supervision for execution of work. Also interested in overseas projects calling for not exceeding 10,000yd per week output. Dick Hampton, Blacknest, Alton, Hants. Tel: Bentley 2241. [0334]

**TO LANDOWNERS, SOLICITORS, ARCHITECTS** and others having land/property are invited to forward details to Land Development Consultant, who will handle and negotiate on your behalf on basis of No Sale No Fee. Box No. 0702. [6726]

### MISCELLANEOUS

**REFRIGERATED SHELVES** for bottle cooling, beer and wine coolers, etc., for hotel, catering and licensed trades, supplied and installed. G.V.E. Ltd., 231 Strand, W.C.2. FLE 5947. [0813]

## INSURANCE

**ARCHITECTS' Indemnity Insurance**  
**effected.—Please write for Proposal Form**  
**to E. J. Saxby, Incorporated Insurance**  
**Broker, 37a Carfax, Horsham, Sussex.**  
**Tel. 3000. [6455]**

## SHOPFRONTS

**CONSULT** Burns Shopfitters for your Budget-priced Shopfronts. 8 Essex Place, London, W.4. CHI 1852/7601. [0680

## BOOKS

**CONSTRUCTIONAL STEELWORK SHOP PRACTICE.** A text-book for apprentices and students. Published for the British Constructional Steelwork Association. By John Farrell. A practical work covering every stage of operations in this industry. The reading of constructional engineering drawings is explained in detail, and the work of the template shop discussed. The work of the plater in marking off and assembly is explained. The processes of fabricating steelwork are then described, and final chapters deal with inspection, checking, maintenance, etc. 15s net from all booksellers. By post 16s 1d from Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

**BUILDING TECHNIQUE FOR DOMESTIC AND SIMILAR STRUCTURES**, Edwin Gunn, A.R.I.B.A., Revised by John Brandon-Jones, A.A.Dip., A.R.I.B.A., 3rd edition. Fully revised edition of a well-known reference book on constructional design (formerly "Modern Building Technique"). Containing a lifetime of first-hand experience, proved on the building site, it is an indispensable tool for both the architect and the builder. A valuable feature is the large number of references to publications of such bodies as the Building Research Station and the British Standards Institution. 21s net from all booksellers, 22s 2d by post from The Publishing Department, Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

## CLASSIFIED ADVERTISEMENTS

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To "THE ARCHITECT and Building News" Classified Advertisement Department, Dorset House, Stamford Street, London, S.E.1. Waterloo 3333  
PLEASE INSERT THE ADVERTISEMENT INDICATED ON FORM BELOW

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[illegible]

Please write in block letters with ball pen or pencil

NUMBER OF INSERTIONS.....

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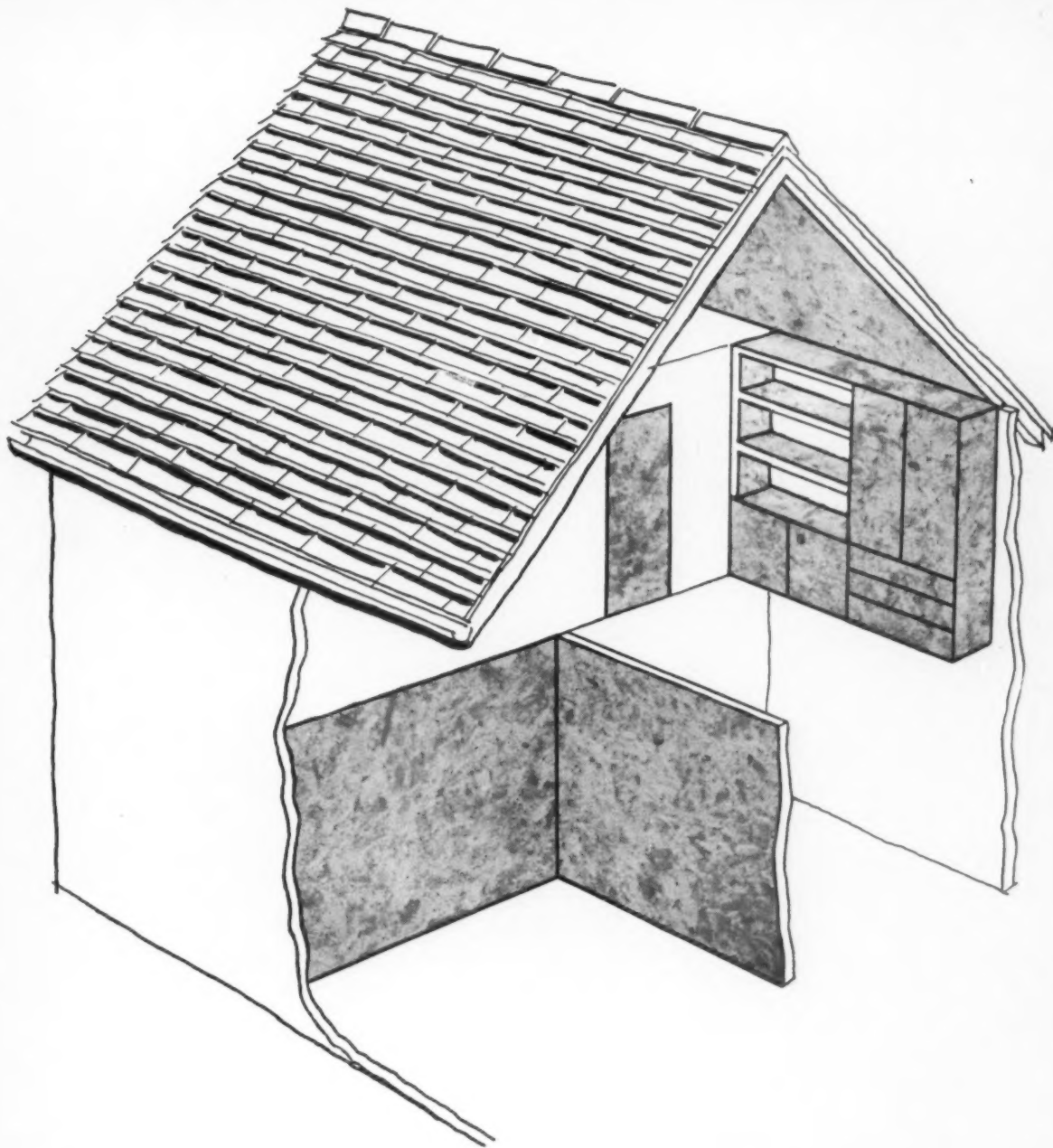
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